University of Massachusetts Lowell

Continuing Studies & Corporate Education http://continuinged.uml.edu



Summer Summer

This Summer:
Celebrate Lowell's Culture
While You Earn a Degree

Undergraduate & Graduate Courses

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Summer Session I

May 29-Jun 29

Summer Session II

Jul 9-Aug 17

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This Summer: Celebrate Lowell's Culture While You Earn a Degree

With the publication of UMass Lowell's Summer 2001 Bulletin, we are showcasing the city of Lowell, a city rich in history, and the cultural backdrop against which the University offers many of its courses and programs.

This Summer offers not only the opportunity to continue your education — but also to explore a city brimming with activities the whole family can enjoy. From the 15th Annual Lowell Folk Festival (the largest free folk festival in the United States), with six stages, three days of traditional music and dance, street parades, ethnic foods, and craft demonstrations presented throughout the city from July 27th to July 29th; to sports events, historical parks, museums, and the theater, there are abundant attractions to stimulate your intellectual curiosity.

For your convenience we have printed a calendar listing on the back cover of some of the most exciting things happening in Lowell from May through August. For more detailed information, you can log on to the Greater Merrimack Valley Convention and Visitors Bureau website at http://www.merrimackvalley.org.

At UMass Lowell, there are multiple opportunities to advance your career and education, with over 500 courses from which to choose, many of them leading to undergraduate and graduate degrees and certificate programs.

Even if you can't come to Lowell this summer, you can take advantage of our 85 online courses, from a variety of subjects, offered conveniently over the Internet, providing the flexibility you may prefer.

This summer, savor the city while learning in Lowell!

2 0 0 1

Thursday

May 17, 2001

7:00-8:00 pm Media Center

Lydon Library

North Campus

continuinged.uml.edu

UMASS LOWELL

CHECK OUT OUR WORLD WIDE WEB SITE!

Continuing Studies information can also be retrieved over the World Wide Web. Look for us at http://continuinged.uml.edu for additional information on current course schedules, course descriptions, degree or certificate program information, and much more!

New Student Orientation

Are you a new student to Continuing Studies and Corporate Education? Do you have questions about registration, tuition, applying to a degree or certificate program, etc.?

Then join us for our New Student Orientation Night!

Get answers to questions such as:

- How do I select a course and check for prerequisites?
- How do I register?
- Am I able to enroll in a degree or certificate program?
- When do I pay for my courses?
- Where is my classroom located?
- How do I take a course online?

Call the Advising Center today at (978) 934-2474 to reserve your place!

Free CyberEd Orientation!

Come see how easy it is to take a course online!

Want to learn more about taking courses over the Internet? Are you planning on registering for a CyberEd course this semester? This orientation will introduce you to the features of your online course and answer any questions you may have.

Join us at the session that best fits your schedule:

Session 1:

Thursday, May 17, 6:30-7:15 pm

Session 2:

Thursday, May 17, 7:30-8:15 pm

Call (978) 934-2474

to reserve your seat in one of these sessions!

OPEN HOUSE & GENERAL REGISTRATION

Thursday, May 17, 2001

5:00-7:30pm Southwick Hall, North Campus

Find out about:

- Evening Certificate Programs & Degrees
- Financial Aid
- CyberEd Online Courses

Academic Advisors will be available at UMass Lowell North Campus. For further information, call (978) 934-2480.

NEW! INFORMATION SESSIONS

Advisors for the Bachelor of Liberal Arts degree and the Information Systems degree programs will hold Information Sessions for those who would like to learn more about these programs. All current students and prospective students are invited to participate. These presentations will be followed by an informal question and answer period.

THE DATES ARE: MONDAY, JUNE 11 6:00-7:00 PM MONDAY, JULY 23 6:00-7:00 PM

Call the Advising Center today at 978-934-2474 to reserve your place.

Certificate Programs Training for High-Demand Careers

Creative Arts/Media

Website Design & Development

In our rapidly-evolving, knowledge-based economy, workers are struggling to keep up with the latest technologies and skills. Specifically, in the area of internet technology, local companies are actively pursuing employees with knowledge and skills in website design and development. Note: Students participating in this program should have basic Mac OS and/or Windows familiarity.

Required Courses:

90.291	Introduction to mivil
90.231	Graphics for Multimedia and the World Wide
	Web
00 000	Mahaita Davalanasant

90.238	Website Development
70 070	14/1 "

70.379 Website Design

JavaScript

Introduction to Perl

Introduction to XML

Advanced Website Design and Development 70.384

90.302

90.305

90.306

	Elective	s (Choose 2):
	70.262	Digital Imaging and Photography
	70.385	Streaming Media for the Web
	90.230	Introduction to Multimedia
	90.236	Instructional Design for Interactive Media
	90.245	Website Server Administration
	90.246	Active Server Pages
	90.247	Advanced Web Authoring: Flash™
	90.248	Website Database Implementation
	90.249	Developing IT Training for the Web
	90.250	E-Commerce on the Web
	90.292	Advanced HTML
į	90.301	Java Programming

Multimedia Applications

The multimedia industry is booming and promises to become one of the most lucrative industries of the century. Individuals with the skills and knowledge to communicate using the new technology will flourish in this merging industry. The Multimedia Certificate Program at UMass Lowell is one of the largest, most comprehensive programs of study in multimedia available in New England. It draws upon the expertise of several departments, colleges, and centers within the University, as well as outside expertise from industry professionals.

You can now earn the Certificate in Multimedia Applications online! See the CyberEd website at http://cybered.uml.edu for more information.

Required Courses:

90.230	Introduction to Multimedia
90.231	Graphics for Multimedia and the World Wide Web
90.232	Desktop Video Production
90.233	Multimedia Authoring Software: Macromedia
	Director®
90.234	Designing and Developing Interactive Media

Electives (Choose 2):

90.239

90.247

90.249

42.221	Writing for Interactive Media
70.262	Digital Imaging and Photography
70.264	Computer Graphics and Illustration
70.291	Introduction to Graphic Design
70.376	3D Computer Animation
70.377	Advanced Animation: After Effects®
70.379	Website Design
70.384	Advanced Website Design and Developm
70.385	Streaming Media for the Web
90.236	Instructional Design for Interactive Media
90.238	Website Development

Director's Lingo™

Multimedia Scripting Using Macromedia

Advanced Web Authoring: Flash™

Developing IT Training for the Web

Graphic Design & Digital Imaging This certificate program offers students inter-

ested in breaking into graphic design and electronic publishing an innovative mix of traditional design courses along with several courses in the latest publishing technologies. From traditional graphic design to designing for multimedia and the World Wide Web. students in the program complete numerous portfolio pieces geared towards the professional market.

Required Courses:

70.291	Introduction to Graphic Design	
70.240	Fundamentals of Typography	

70.245 Desktop Publishing: Layout and Production 70.262 Digital Imaging and Photography

Advanced Graphic Design 70.391 70.400 Portfolio Production Seminar

Electives (Choose 2):

Director®

Website Development

90.238

70.264	Computer Graphics & Illustration
70.362	Advanced Digital Imaging
70.376	3D Computer Animation
70.377	Advanced Animation: After Effects®
70.379	Website Design
70.384	Advanced Website Design & Development
70.392	Design for Advertising
90.230	Introduction to Multimedia
90.231	Graphics for Multimedia and the World Wide
	Web
90.233	Multimedia Authoring Software: Macromedia

AVAILABLE ONLINE THIS SUMMER!



Fred Plaisted Manager, e-Learning Technologies EMC Corp.

ent

Developing IT Training for the Web (Course #90.249) This online course focuses on

developing information technology training for web-based courses. This course is ideal for professional trainers and corporate professionals who

are responsible for putting their course materials online. IT trainers, multimedia/ web course developers, directors of e-learning, HR professionals, directors of training, CBT developers, instructional designers, and teachers who are thinking about putting their course materials online would also benefit from this course. According to Fred Plaisted, one of our most popular online course instructors, "I really enjoy teaching this course and providing others with some creative insights on developing effective training materials for online use."

TECHNOLOGY

Fundamentals of Information Technology

The need for professionals with a strong information technology background will continue to increase as business, government, schools, and other organizations seek new applications for computers and networks in the workplace. This certificate is designed as an introductory program for those who want to explore a broad range of electives in different subject areas before deciding on an area of specialization. This program can be used as a gateway to the other, more specialized certificate programs.

You can earn the Certificate in Fundamentals of Information Technology entirely online, on campus, or by taking a combination of online and on campus courses. For more details, please see our CyberEd website at http://cybered.uml.edu!

Required Courses:

90.160	Introduction to Information Systems
90.202	Introduction to Personal Computing and
	Microsoft Office*

Electives (Choose 4):

Programming Electives:

90.211	Introduction to Programming with C, Part I
90.212	Introduction to Programming with C, Part II
90.220	Visual Basic

C Programming 90.267 C++ Programming 90.268

90.269 Advanced C++ Visual C++ 90.270

90.360 Problem Solving with C

Database Electives:

Applications Software: Access 90.171 90.342 Relational Database Integration 90.474 Relational Database Concepts

Multimedia/Web Electives:

Introduction to Multimedia 90.230 Exploring the Internet 91.113

Additional Electives:

90.311 Introduction to the UNIX Operating System **UNIX Shell Programming** 90.312

90.461 LAN/WAN Technologies

*Students with spreadsheet and database experience on Mac's or PC's can replace 90.202 with any of the elective courses listed above.

** Note: This is a partial list of electives. For the complete list of courses that may be applied as electives, see the Continuing Education Course Catalog for computer courses with the 90. or 92. prefix.

Client/Server Database Design and Administration

Economic indicators, business surveys, and professional IT recruitment agencies show a major shortage of IT skills today and well into the future. One of the greatest demands for skilled IT professionals is in Database Design and Administration. With every aspect of today's businesses being moved to E-Commerce to service the vast global economy, professionals skilled in database technology are in critical demand. This certificate is designed to provide a strong background in all areas of database and data-related skills: operating system platforms, database design, development, and administration. Utilizing state-of-theart labs, hands-on skill building and projects are emphasized.

Required Courses:

Note: Students with experience equivalent to any of the required courses may substitute up to two electives for the required courses, with prior approval of the program coordinator.

90.443 Fundamentals of Client/Server Computing 90.450 Oracle Architecture and Administration 90.454 Introduction to PL/SQL

Relational Database Concepts 90.474

Electives (Choose 2): 90.220 Visual Basic

90.311 Introduction to the UNIX Operating System

90.445 SQL Database Servers

90.453 Advanced Database Administration 92.479

Advanced Database Applications:

Powerbuilder

UNIX®

The Certificate in UNIX is designed for those currently in the computer industry who want to upgrade their skills, and for those with basic computer literacy who want to enter this fast-growing field. Students learn skills that are immediately applicable in the workplace as well as C Programming, the language in which most networking software is written. Many of the courses in the UNIX certificate program may be used to satisfy requirements in the Fundamentals of Information Technology and Data/Telecommunications Certificate Programs, as well as the A.S. or B.S. degrees in Information Systems.

You can now earn the Certificate in UNIX online! See the CyberEd website at http://cybered.uml.edu for more information.

Required Courses:

90.267 C Programming

Introduction to the UNIX Operating System 90.311

90.312 **UNIX Shell Programming**

90.360 Introduction to Data Structures

Electives (Choose 2):

90.268 C++ Programming

90.269 Advanced C++

90.313 **UNIX Internals Overview**

92.314 **UNIX System Interface Programming**

UNIX System Administration 90.316

90.318 Advanced UNIX Internals/Tuning

Data/Telecommunications

Networking is a multi-billion dollar industry. The Certificate Program in Data/Telecom-

munications trains participants for positions as entrylevel network administrators, LAN technicians, and system analysts responsible for networking functions in large or small companies. Many of the courses in this certificate program can be applied towards the A.S. or B.S. degree in Information Systems.

Required Courses:

90.267 C Programming

Introduction to the UNIX Operating System 90.311

90.461 LAN/WAN Technologies

90.462 TCP/IP and Network Architecture

90.463 Advanced Networking Technologies

90.464 Network Management

UMass Lowell and Nortel Networks, Inc. also offer a joint certificate program in Data/Telecommunications. For more information call (978) 934-2480 or visit our website at http://continuinged.uml.edu.

Intranet Development

The Certificate Program in Intranet Development provides students with an understanding of the range of skills required to develop a successful intranet. Students are required to complete an intranet survey course, a database design course, and an interface design course, as well as core programming courses. In addition, students will select two electives which support an area of focus in intranet development. Students completing the Certificate Program in Intranet Development can qualify for positions as intranet developers, database integration specialists, systems operators, systems administrators, or corporate Webmasters.

Earn the Certificate in Intranet Development online! See the CyberEd website at http://cybered.uml.edu for more information.

Required Courses:

Intro to the Application and Development of 90.340

90.341 Intranet Applications for the Organization

90.461 LAN/WAN Technologies 90.474 Relational Database Concepts

Electives (Choose 2):

90.267 C Programming C++ Programming 90.268 90.301 **JAVA Programming**

Introduction to Perl 90.305 90.342 Relational Database Integration

Intranet Network Interface Design 90.455 90.462 TCP/IP and Network Architecture

90.490 Intranet Practicum/Internship



Computer Engineering Technology

The Certificate Program in Computer Engineering Technology is designed to provide students with a broad-based knowledge of digital electronics, microprocessors and advanced digital technologies. Students enrolled in the program must complete the seven courses listed below. The curriculum includes engineering science and design courses that provide a balanced view of hardware, software, application tradeoffs, and the basic modeling techniques used in computer engineering. All the courses in this certificate program can be applied towards the B.S. degree in Electronic Engineering Technology.

Required Courses:

17.347 Logic Design B

17.348 Logic Design C & Laboratory

17.353 Digital Electronics

Microprocessors A 17.383

17.384 Microprocessors B

90.267 C Programming

90.268 C++ Programming

Free Professional Development Courses for Mathematics Teachers!

A Consortium of District Mathematics Leaders Building Regional Capacity

UMass Lowell, the Center for Mathematics Education at EDC, and the Eastern Mathematics Association of Mathematics Department Heads are pleased to offer a National Science Foundation-funded summer program for department heads, curriculum coordinators, and lead teachers. The funding includes tuition, textbooks, and a stipend.

The program will feature advanced disciplinary content, seminars in professional development and leadership, and mentored academic year field experience.

July 16-July 27, 2001

04.536-021 Professional Development for Mathematics Leaders

92.500-021 **Discrete Structures**

92.500-022 **Discrete Structures**

For more information, contact Alan Doerr at (978) 934-2415 or email: Alan_Doerr@uml.edu.



Electronics Technology

The Certificate Program in Electronics Technology is designed to provide students with a broad-based knowledge of circuit theory and electronics, with laboratory work included to ensure that good hands-on experience is acquired along with the deep understanding of fundamental and changing technologies. All the courses in this certificate program can be applied towards the A.S. or B.S. degree in Electronic Engineering Technology.

Required Courses:

17.213 Electric Circuits

17.214 Circuits and Laboratory I

17.215 Circuits and Laboratory II

17.216 **Advanced Circuits**

17.346 Logic Design A

17.355 Electronics & Laboratory I

17.356 Electronics & Laboratory II

17.357 Electronics & Laboratory III

17.358 Electronics & Laboratory IV

Computer-Assisted Manufacturing

As the United States focuses on the challenges of global economic competition, one of the key tools for sharpening our competitive edge is the use of the computer as an aid to engineering and manufacturing. The Certificate Program in Computer-Assisted Manufacturing is designed to provide engineers, technicians, managers, and those working in a manufacturing environment with an introduction to the computer as used to enhance industrial competitiveness. Students will apply various popular software packages and work with personal computers, workstations, and standalone computer-controlled machine tools.

Required Courses:

23.200 CADrf (Computer-Aided Drafting)

23.419 Computer-Aided Manufacturing

CADes (Computer-Aided Design) 23.480

23.484 Intro to Pro-E

Electives (Choose 2):

23.101 **Engineering Graphics**

Engineering Design and Graphics 23.102 Manufacturing Technology Laboratory 23.301

Manufacturing Processes OR 23.305

Electronics Manufacturing Technology 23.306

23.430 Industrial Automation

23.474 Design for Manufacture



Environmental Technology

This certificate program is designed for personnel employed in safety, laboratory, physical plant, distribution, transportation, drafting, public works, or health board functions, as well as consultants. Students in the program gain knowledge relevant to air pollution control, resource recovery, analytical services, hazardous waste management, waste management, water infrastructure, instrument manufacturing, solid waste management, energy sources, asbestos abatement, and water utilities development. Many of the courses in this certificate can be applied towards the B.S. in Civil Engineering Technology: Environmental Option.

Required Courses:

15.340 Hazardous Waste Management

Air Quality Monitoring 15.378

15.420 Solid Waste Management

Chemistry I OR 84.121 Chemistry I 86.131 84.122 Chemistry II OR 86.132 Environmental

Chemistry II

Electives (Choose 2):

Industrial Waste Treatment 15.280

15.356 Water Treatment

15.358 Wastewater Treatment

Pumps and Compressors 15.388

17.130 Electrical Basics and Laboratory 41.367 Environmental Law

GIS in Environmental Studies 87.403

00.000 OSHA HAZWOPER

Hazardous Waste Management

The Certificate Program in Hazardous Waste Management is designed to provide environmental technicians, engineers, managers, and those working in the environmental field with an introduction to regulations and treatment technologies. Course work covers basic environmental chemistry, state and federal environmental regulations, various types of groundwater contamination and suitable technologies to abate hazardous waste contamination.

Required Courses:

15.280 Industrial Waste Treatment

15.340 Hazardous Waste Management

15.396 **Groundwater Resources**

41.367 **Environmental Law**

Environmental Chemistry I 86.131

Electives (Choose 2):

15.388 Pumps and Compressors

Solid Waste Management 15.420

Water/Wastewater Plant Management 15.492

Environmental Chemistry II 86.132

OSHA HAZWOPER 00.000

Wastewater Treatment

The Certificate Program in Wastewater Treatment prepares students for all levels of state certification required to manage and operate a modern wastewater treatment facility. The program is designed for individuals seeking to enter the field of wastewater treatment and for those in the field who want to upgrade their skills or achieve a higher level of state certification. Many of the courses in this certificate can be applied towards the A.S. in Civil Engineering Technology: Wastewater Option.

Required Courses:

Wastewater Treatment Plant Operations I 15.261

15.263 Wastewater Operations Lab I

15.280 Industrial Waste Treatment

Wastewater Treatment Plant Operations II 15.361

15.363 Wastewater Treatment Lab II

Electives (Choose 2):

15.152 Water Biology

15.388 Pumps and Compressors

Operation and Maintenance of Wastewater 15.452 Collection Systems

Water/Wastewater Plant Management 15.492

86.131 Environmental Chemistry I

86.132 **Environmental Chemistry II**

Water Treatment

The Certificate Program in Water Treatment provides the most effective way to prepare for the water treatment certification exams. Courses in this program are intended to provide students with the technical knowledge to operate and maintain physical/chemical water treatment facilities and water distribution systems. Many of the courses in this certificate can be applied towards the A.S. degree in Civil Engineering Technology: Water Option.

Required Courses:

15.272 Water Supply & Treatment Operations I

15.274 Water Works Operations Lab I

15.355 Water Distribution Systems

Water Supply and Treatment Operations II

Environmental Chemistry I 86.131

Electives (Choose 2):

15.152 Water Biology

Water Works Operations Lab II 15.374

15.388 Pumps and Compressors

Water/Wastewater Plant Management 15.492

Environmental Chemistry II 86.132

> For more information and a detailed program packet, please call the Office of Continuing Studies and Corporate Education at (978) 934-2480.



The Certificate Program in **Contemporary Communications**

The Contemporary Communications Certificate is intended as an introductory certificate to prepare students for work in a rapidly changing, information-driven workplace. Students will develop skills in research, analysis, writing, graphic presentation of material, and the use of technology as a tool for communication. This certificate program is interdisciplinary and draws upon the expertise and knowledge of several departments within the University. Many of the courses in this certificate can also be applied towards several other certificates and degrees offered by UMass Lowell.

Required Courses:

Written Communication (Choose 1):

Writing for Interactive Media

Technical and Scientific Communication 42.226

42.224 **Business Writing**

Computer-Based Communications (Choose 1):

91.113 Exploring the Internet

Intro to PCs and MS Office 90.202

Strategic Thinking and Effective

Communication (Choose 1):

45.205 Argumentation and Rhetoric

Corporate Communications 45.207

Marketing Principles 62.201

Multimedia/Graphic Design and Development

(Choose 1):

70.291 Introduction to Graphic Design

90.230 Introduction to Multimedia

Electives (Choose 2):

42.221 Writing for Interactive Media

42.224 **Business Writing**

42.226 Technical and Scientific Communication

42.300 Journalism

45.205 Argumentation and Rhetoric

45.207 Corporate Communications 45.356

The History, Theory, and Practice of Rhetoric

62.201 Marketing Principles

70.291 Introduction to Graphic Design

90.202 Intro to PCs and MS Office Introduction to Multimedia

90.230 Intro to HTML 90.291

91 113 Exploring the Interenet

*NOTE: Check distance ed course listings for online offerings in this certificate.

Certificate Programs

UMass Lowell also offers certificate programs in:
Accounting Paralegal Studies

Community Policing Electro-Optics

Interactive Game

Design

Semiconductor Manufacturing

Spanish

Land Surveying Nutrition

Quality Assurance

Technical Writing

Water Treatment Certificate Program December 14, 2000 - UMass Lowell's Contin-

Graduate from UMass Lowell's

uing Studies and Corporate Education faculty and staff help celebrate the completion of six courses in Water Treatment by 24 employees from Liquid Metronics Inc. (LMI), an Actonbased maker of metering pumps. The UMass Lowell/LMI training initiative was funded through a grant from the Massachusetts Workforce Training Fund, which provides resources to Massachusetts businesses and workers to train current and newly hired employees.

Continuing Studies and the UML Music Department,

summer music

73.414-021

Education program

July 9 - August 17, 2001

For K-12 Music Educators

Summer offerings will include undergraduate and graduatelevel courses in:

 K-12 Choral Techniques July 9-20 M-F, 9 a.m.- 3 p.m., 3 credits Instructors: Thomas & Holly Stumpf

 Multicultural Music Education July 23-Aug. 3 M-F, 9 a.m.- 3 p.m., 3 credits Instructor: Marian Dura /3.490-021

 Finale: The Art of Music Notation, Aug. 2-3 Th-F, 9 a.m.- 5 p.m., 1 credit Instructors: Dan Lutz and Deb Huber 73.464-021

Computers in the Music Curriculum, Aug. 6-17 M-F, 9 a.m.- 3 p.m., 3 credits Instructor: Marian Dura 73.463-021

For prices and course descriptions, consult our website: http://continuinged.uml.edu

BUSINESS MINOR OPTION

FOR THE ONLINE INFORMATION SYSTEMS DEGREE!

UMass Lowell is pleased to announce a new Business Minor option as part of the Online Information Systems Degree.

Students who are interested in combining management-related courses with their information systems studies are now able to do so with this popular new option.

According to Professor Stuart Freedman, Chair of the Management Department, these online management classes appeal to a wide variety of students. "Students from all over enroll in our online Organizational Behavior class for many different reasons. Some students are currently enrolled in the Business Administration Program and they are planning full-time careers as managers in the business world. Other students are pursuing an Information Systems degree and can now use the class as a requirement towards the new Business Minor option."

Freedman, who has been teaching *Organizational Behavior* as an online course for the past four semesters has found it possible to get to know his students over the Internet and points out that the challenge of efficiently stimulating a classroom environment "can work spectacularly well" online. "I have found it to be a very positive experience and I really enjoy being part of this future!"

"I am pursuing a BS in Information Systems and am very excited to hear about the new online Business Minor. I've always had an interest in taking business courses and this new online Business Minor is the perfect opportunity for me to combine my interest in IS and Business Administration."

-Barbara Daverin, Online Information Systems Degree Candidate



Summer School Just Got a Whole Lot More Convenient Thanks to Online Courses!

Imagine this... spending your summer days at the beach instead of inside a classroom, or how about not having to fight the traffic on those hot summer days to get to class on time? Or maybe you're looking for a way to finish your degree program, but you don't have time this summer to make it to class every week. At UMass Lowell, we've made taking summer classes more convenient than ever.

UMass Lowell's CyberEd program brings the classroom to you! By accessing course materials and interacting with faculty and classmates via the Internet and the World Wide Web, you can learn at a time and place that's convenient to you!

CyberEd courses are limited in size and offer a high level of personal interaction. For the latest information regarding our online courses and programs, visit http://cybered.uml.edu, or call (978) 934-2474 to reserve your seat at our Free CyberEd Orientation being offered on Thursday, May 17th.

Finish Your Degree Online!

UMass Lowell offers the following degrees entirely online:

NEW! • BS in Information Systems: Business Minor

- · AS in Information Systems
- BS in Information Systems
- Bachelor's degree in Liberal Arts (BLA)

For more information on these programs, please visit http://cybered.uml.edu.

Pursue a Short-Term Certificate Program Online!

If you want to acquire specialized skills, but don't have a lot of extra time, consider one of the online certificate programs below to help you reach your career goals. Many of the courses taken towards these certificates can also be applied towards the online degree programs.

UMass Lowell offers 5 online certificate programs in:

- Multimedia Applications
- Fundamentals of Information Technology
- Intranet Development
- · UNIX
- Data/Telecommunications

UMass Lowell Online Degrees & Certificate Programs

* Finish Your Associate's or Bachelor's Degree Online!

Whether you're just starting to pursue a degree or returning to finish your Associate's or Bachelor's degree, our online courses provide the convenience and flexibility you need.

Online Degrees Offered by UMass Lowell:

- * A.S. in Information Systems
- * B.S. in Information Systems
- * B.L.A. Bachelor's Degree in Liberal Arts

NEW! * B.S. in Information Systems: Business Minor

Interested in acquiring specialized skills but don't have a lot of extra time?

We offer short-term certificate programs online for training in areas of high demand!

UMass Lowell Offers Online Certificate Programs in:

- * Multimedia Applications
- * Fundamentals of Information Technology
- * Intranet Development
- * UNIX
- * Data Telecommunications

For complete information on these online degrees and certificate programs, please visit our CyberEd Website at http://cybered.uml.edu.

http://cybered.uml.edu

Course #	Course Title	Prerequisite/Requirements	Instructor
0.201-031	Community Health	Open to all students	Nicole Champagne
6.414-031 NEW	Infectious Disease	P: 1 semester of General Microbiology	Sandra Fessia-Richardso
6.613-031 NEW	Infectious Disease (Graduate)	P: 1 semester of General Microbiology	Sandra Fessia-Richardso
2.101-031	College Writing II	CommonSpace software P: 42.101, CommonSpace software	Richard Keating Richard Farrell
2.212-031	College Writing II The Short Story	P: 42.101, CommonSpace software P: 42.102, CommonSpace software; LT	Ashmita Khasnabish
2.224-031	Business Writing	P: 42.102, commonspace software, L1 P: 42.102, students cannot earn credit for both 42.224 and 42.226,	
2.224-031	business witting	CommonSpace software	Nancy Brown
2.226-031	Technical and Scientific Communication	P: 42.102, CommonSpace software	Peter Payack
3.108-031	World History II	HS	David Kalivas
3.206-031	American Economic History	Proctored exams, HS	Joseph Lipchitz
3.274-031	Native American History	HS 1	Diane Lewis
7.101-031	General Psychology	Human Values, BS	Charlene Drake
7.351-031 NEW	Human Sexuality	P: 47.101	Mary Duell
7.477-031 NEW	Seminar: Contemporary Trends - Addictions	P: 47.101	Richard Siegel
8.101-031	Introduction to Sociology		John Ost
9.201-031	Economics I	P: 90.111; BS; proctored exams	Michael Carter
3.101-031	Art Appreciation	AE/Cultural Diversity	Liana Cheney
0.201-031 N 601 031 NEW	Accounting/Financial	Permission MPA Program Director	Clairmont Carter Yash Puri
2.201-031 NEW	(Graduate) International Finance (7 weeks)	Permission MBA Program Director	Duncan LaBay
	Marketing Principles Management Information Systems (7 weeks)	P: 47.101, 49.201, 48.101; proctored exams	
.301-031 NEW	Management Information Systems (7 weeks) Managerial Quality Control	BSBA or Bus. Minor students and COM Dean Permission; proctored exams BSBA or Bus. Minor students and COM Dean Permission; proctored exams	Luvai Motiwalla David Lewis
.301-031	Organizational Behavior (7 weeks)	BSBA or Bus. Minor students and COM Dean Permission; proctored exams	Stuart Freedman
0.253-031	Intro. to Management & Organizational Behavior (7 weeks)		Stuart Freedman
9.275-031	Total Quality Management	Proctored exams; not for BSBA students	David Lewis
1.101-031	Applied Chemistry for Non-Scientists	SL SL	Philip Lamprey
0.160-031	Introduction to Information Systems		Lisa Panagopoulos
0.160-032	Introduction to Information Systems		Sam Chaudhuri
0.160-033	Introduction to Information Systems		Sam Chaudhuri
0.202-031	Introduction to PC's & Microsoft Office	Microsoft Office 2000 Pro or higher	Robin Desmond
0.202-032	Introduction to PC's & Microsoft Office	Microsoft Office 2000 Pro or higher	Robin Desmond
0.220-031	Visual Basic	Visual Basic Vers. 6.0, Win., and working knowledge of high-level language	Department Faculty
0.224-031	Advanced Visual Basic	P: 90.220; Visual Basic Version 6.0	Arthur Chadbourne
0.230-031	Introduction to Multimedia	Software, see CyberEd website for details	Rob Graham
0.230-032	Introduction to Multimedia	Software, see CyberEd website for details	Rob Graham
0.230-033	Introduction to Multimedia	Software, see CyberEd website for details	Department Faculty
0.231-031	Graphics for Multimedia and the World Wide Web	Photoshop 5.0 or 5.5; access to a scanner	Randy Howe
0.232-031	Desktop Video Production	P: 90.230; Adobe Premiere (6.0)	Department Faculty
0.233-031	Multimedia Authoring Software: Director	P: 90.230; Macromedia Director 8	Beatrice Lee
0.238-031	Web Development: FrontPage/Windows	P: 90.291; 90.231 recommended	Fred Plaisted
		MS FrontPage 2000 (Not FrontPage Express)	
0.238-032	Web Development: FrontPage/Windows	P: 90.291; 90.231 recommended	Judith Feeney
		MS FrontPage 2000 (Not FrontPage Express)	
0.239-031	Multimedia Scripting Using Director's Lingo	P: 90.233; Macromedia Director 8	Jonathan Adams
0.247-031	Advanced WebAuthoring: Flash	P: 90.291, 90.302 or Programming familiarity and Flash	Michael Murie
0.249-031	Developing IT Training for the Web	P: 90.230	Fred Plaisted
0.267-031 0.267-032	C Programming	C Compiler software; prev. prog. experience	Timothy Niesen
	C Programming	C Compiler software; prev. prog. experience	Ann Marie Hurley
0.268-031	C++ Programming C++ Programming	C++ Compiler software; prev. prog. experience	Mark Hertel Lance Smith
0.269-031	Advanced C++	C++ Compiler software; prev. prog. experience P: 90.268; C++ Compiler software	Mark Hertel
0.270-031	Visual C++	P: 90.268; Visual C++ Compiler	Barbara Bancroft
0.291-031	Introduction to HTML	1 . 00.200, γισμαί σττ συπρίισι	William Dubie
0.291-031	Introduction to HTML		Department Faculty
0.291-033	Introduction to HTML		William Dubie
0.291-034	Introduction to HTML	And I the Address of the Annual Control of the State of t	Jason Player
0.297-031	Intro. To Java Programming	Sun Java Dev. Kit	Lance Smith
0.301-031	Java Programming	P: 90.268 or 90.297; Sun Java Dev. Kit	Mark Cohen
0.302-031	JavaScript	P: 90.291 or knowledge of HTML	Dave Sciuto
0.302-032	JavaScript	P: 90.291 or knowledge of HTML	Gregory Rushton
0.303-031	Advanced Java Programming	P: 90.301; Sun Java Dev. Kit	Mark Cohen
0.305-031	Introduction to Perl	P: 90.267	Gregory Rushton
0.311-031	Intro. To Unix Op. Systems		Fred Vegliante
0.311-032	Intro. To Unix Op. Systems		Sean McGowan
0.312-031	Unix Shell Programming	P: 90.311 and 90.267 or 90.212	Michael Richards
).342-031	Web-Enabled Database Development	P: 90.474	Justin Seiferth
0.360-031	Intro. to Data Structures	P: 90.267, or 90.212 and 90.364; proctored exams	Isobel Davis
0.364-031	Problem Solving w/C	P: 90.267 or 90.212	Sean McGowan
0.461-031	LAN/WAN Technologies	P: 90.267	Ed Barnes
0.462-031	TCP/IP & Network Architecture	P: 90.461	Ed Barnes
0.464-031	Network Management	P: 90.461 or 92.472	Jaime Fernandez
0.474-031	Relational Database Concepts	P: 90.267	Paul Giguere
1.113-031	Exploring the Internet		Department Faculty
2.121-031	Precalculus Mathematics I	P: 90.111 or equivalent. For students in the Info Systems Program, 92.121 can be	Alan Doerr
		substituted for the combination of 90.112 and 90.119. May req. proctored exams	
2.183-031	Introduction to Statistics	P: 90.111 or equivalent; MA	Ann Marie Hurley
2.321-031	Discrete Structures I	P: 90.112 or 92.121; proctored exams	Alan Doerr
2.322-031	Discrete Structures II	P: 92.321	Kenneth Levasseur

Unless otherwise noted, all courses are 12 weeks and begin May 29, 2001. Undergraduate CyberEd courses are \$220.00 per credit; Graduate CyberEd Courses are \$300.00 per credit.

CyberEd Course Registration & Confirmation

Students should make sure they have fulfilled the particular course prerequisites prior to registering for a course. To register for a UMass Lowell CyberEd course, see the registration form on back cover, or call (978) 934-2700 or toll free 1-800-480-3190. Be sure to provide your email address when you register!

All students are assigned a user name, password, and the website address for their course. To obtain this information, each student must complete the Online Registration Confirmation. Two business days after registering for your CyberEd course, visit the CyberEd website at http://cybered.uml.edu and complete the Online Registration Confirmation. Students who do not receive this information prior to the first week of class should contact the CyberEd office at (978) 934-2467 or email cybered@uml.edu.

New! CyberEd students can order their textbooks directly from our online bookstore at http://direct.mbsbooks.com/cybered.htm or call 1-800-325-3252.

Technical Requirements

Students must provide the following:

- PC Users: Personal computer with Windows 95 or higher, Internet access, email address, Internet Explorer 4.0 or higher or Netscape Navigator/Communicator 4.0 to 4.7 (not version 6.x)
- Macintosh Users: Power PC or higher, OS 8.5 or higher, Internet access, email address, Netscape 4.0 to 4.7 only

Some courses have additional software requirements.

Student Technical Skills

All students new to CyberEd should complete the free online Demonstration course available on the CyberEd website. Various Internet utilities (e.g. mIRC, ftp, telnet) are required for some CyberEd courses. Students are responsible for learning to use course-related utilities before enrolling in a CyberEd course. Tutorials are available on the CyberEd website.

For the latest information regarding our online courses and programs, visit the CyberEd website at: http://cybered.uml.edu or call (978) 934-2474.

Note: There are no veteran or senior citizen waivers for distance education courses. Please refer to pages 17-18.

ON-SITE TRAINING AT LOCAL COMPANIES



Let our Corporate Training Team assist your company in delivering quality training!

When you work with UMass Lowell to arrange Corporate Training, you'll receive customized solutions designed to reduce time and costs. In addition to individual courses and certificate programs, UMass Lowell offers degree programs at all levels up through the doctorate. Our flexible course delivery options allow you to schedule training around your workload. We provide customized training by the day, week, or month — during or after working hours, or over the Internet.

FOR FURTHER INFORMATION, contact Catherine Kendrick at (978) 934-2495 or email: Catherine_Kendrick@uml.edu.

ONLINE

plastics rechnology certificate program

Offered by UMass Lowell and Nypro Online

UMass Lowell and Nypro Online are pleased to offer an online Plastics Technology certificate program that allows students around the world to earn a credit-bearing certificate via the Internet. For more information, please visit www.nyproonline.com or call (978) 368-9684, extension 684.

ON-SITE

Training in Plastics Manufacturing

UMass Lowell, in collaboration with the Plastics Institute of America, offers a number of employee training modules designed to enhance the knowledge, understanding, and skills of technical staff working with plastics. These modules can be custom-designed to fit your company's specific training needs. For more information, call 978-934-2495.

Plastics Seminars Workshops January - August 2001

UMass Lowell's Plastics Seminars and Workshops are highly respected throughout the plastics industry as a proven method for gaining both theoretical and practical information on plastics manufacturing, design, and quality control. Seminars are taught by UMass Lowell's internationally-respected Plastics Engineering faculty and many of the seminars include hands-on experience in the University's wellequipped plastics processing laboratories.

For more information, please visit our Website at http://continuinged.uml.edu/plastics or call (978) 934-2405 for a free brochure.

SUMMER 2001 GRADUATE COURSES in CRIMINAL JUSTICE

Held at the McCormack Building/Government

Center in Boston

NOTE: See page 16 for additional Summer

Graduate Courses.

SUMMER I

Criminological Theory M/W 5-8:30 PM; Ron Corbett 44.521-291

Family Violence T/Th 5-8:30 PM; Pat Kane-Thompson 44.622-291

Special Topics: The Community Court T/Th 5-8:30 PM; John Curran 44.682-291

SUMMER II

Special Topics: Substance Abuse and Criminal Justice M/W 5-8:30 PM; Tom Merrigan 44.682-292

Summer 2001 Courses at Bedford, MA **Hanscom Air Force Base**

Intro to HTML (Summer I) T/Th: 5:00-8:30 pm Janine Jacques; 90.291-041

C++ Programming (Summer I) M/W: 5:00-8:30 pm Justin Seiferth; 90.268-041

Bedford, MA **VA Medical Center**

C Programming (Summer I) T/Th: 5:00-8:30 pm Fuquan Gao; 90.267-041

TCP/IP and Network Architecture (Summer I) M/W: 5:00-8:30 pm Tom Stephenson; 90.462-041

Westborough, MA Undergraduate-Level

Organization of Programming Languages (14 weeks)

Th: 5:00-8:00 pm P: 91.250 or equivalent Krishnan Seetharaman; 91.301-491

To register and for directions, please call Continuing Studies Enrollment Services at (978) 934-2480.

On-site Manufacturing Training

Interested in onsite corporate training in manufacturing and engineering? UMass Lowell has 11 training modules that can be customized to meet your corporate training needs:

- * Geometric Tolerancing
- * Control Systems
- ***XY Mechanical Movements**
- * Machine Control
- *Introduction to Pumps
- & Vacuum Systems
- *Shop Math
- * Statistical Process Control
- *Introduction to Engineering Drawing
- Computer Fundamentals
- * Basic Fluid Power
- ★ Measuring and Gauging

FOR FURTHER INFORMATION, contact Catherine Kendrick at (978) 934-2495 or email: Catherine_Kendrick@uml.edu.

Part-Time Certificate Program in **Plastics Engineering Technology**

UMass Lowell offers a part-time, evening Certificate Program in Plastics Engineering Technology, designed to provide professional training for students needing theoretical and technical information about plastics. A specialized Packaging Option is also available for those students interested in focusing their studies in the area of packaging. For more information on this certificate program, visit our website at http://continuinged.uml.edu or call 978-934-2470 for a certificate information packet.

Summer Session I

Day Classes begin on May 29 and meet Monday through Thursday for 3-credit courses and meet Monday through Friday for 4-credit courses.

M/W Evening Classes begin on May 30 and include 3 FRIDAYS: June 1, June 15, and June 29 at the regularly scheduled hours.

T/Th Evening Classes begin on May 29 and include 2 FRIDAYS: June 8 and June 22 at the regularly scheduled hours.

Reminder: this course listing combines the University of Massachusetts Lowell day school courses and the continuing studies courses. It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

See separate listing for CyberEd courses on page 7.

A PARTIE OF THE	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
Accounting	(Also see Cyb	perEd course listings on page 7.)					
	60.201-011	Accounting/Financial	T/Th	6:00-9:30 pm	3		Charles Thompson
	60.202-011	Accounting/Managerial	M/W	6:00-9:30 pm	3	P: 60.201 or 67.102	Laura Scanlon
	60.331-011	Cost Management Systems	M/W	6:00-9:30 pm	3	P: 60.202, BSBA (non-Accounting	Paul Brown
						students and College of Management Dean permission)	
	NOTE: Course	es with the 67 prefix are not intended for stu	idents ma	triculating in the Ba	chelor o		of Management and
	CERTIFICATE	er into the BSBA program. IN ACCOUNTING (See website for required	courses.				
rt/Computer	(Also see Info	ormation Technology for additional Multimedi	a and We	b Development cou	irse offe	rings.)	
raphics	70.255-011	Drawing: Form and Space	M-Th	9:00 am-Noon	3		Liam Sullivan
	70.264-021	Computer Graphics & Illustration: Adobe Illustrator/Mac (12 wks; no Fridays)	Tues	6:30-10:00 pm	3	P: Mac or Windows proficiency	Alene Sirott-Cope
	70.361-021	Photography II /Advanced Photo Workshop	a Abroad	loop ad an maga 201	3	P: 70.261 and instructor permission	Arno Rafael Minkkine
	70.362-011	Advanced Digital Imaging:	M/W	6:00-9:30 pm	3	P: 70.262	Ella Carlson
	70.302-011	Photoshop/Windows (5 wks plus 3 Fridays			3	1.70.202	Lila Calison
	70.265-011	Computer Art I	M-Th	9:00 am-Noon	2	D: 70 255 or instructor permission	Department Faculty
	70.376-021	3D Computer Animation/Mac		6:30-10:00 pm	3	P: 70.255 or instructor permission P: 70.264 or 90.231	Department Faculty
	70.376-021	(12 wks; no Fridays)	Mon	6.30-10.00 pm	3	P. 70.264 0F90.23 F	Walter Wright
	70.378-021	Interactive Game Design/Windows	Tues	6:30-10:00 pm	3	P: 70.376 and 90.233	Walter Wright
		(12 wks; no Fridays)					
	70.379-021	Website Design/Windows	Thurs	6:00-9:00 pm	3	P: 90.238, and 90.231 or 70.262	Department Faculty
		(12 wks; plus 2 Fridays: 6/15 & 7/13)					
	70.381-021	Advanced Game Design/Windows	Tues	6:30-10:00 pm	3	P: 70.376, 70.378 and 90.233	Walter Wright
		(12 wks; no Fridays)					Tel Source
	70.384-021	Advanced Website Design and	Wed	6:00-9:30 pm	3	P: 70.379, 90.238	Jay Kamins
	70.400-021	Development/Windows (12 weeks; no Frid Portfolio Production Seminar	days) Thurs	7:00-10:30 pm	3	P: 70.291, 70.240, 70.245, and	Kathleen McVay
	70.400 021	(12 weeks; no Fridays)	Titurs	7.00 TO.30 pm		70.391 or permission of instructor	Ratificent Micvay
	While some of	the above courses will not directly transfer in	nto the Ar	t Department's BA	BFA day	school degree program, certain two-cour	se clusters may be
	accepted for tra	ansfer upon prior dept. approval.					
	CERTIFICATE I	N GRAPHIC DESIGN AND DIGITAL IMAGIN	G (See pa	ae 3 for required co	ourses.)		
	CERTIFICATE I	N WEBSITE DESIGN AND DEVELOPMENT	(See page	3 for required cou	rses.)		
		N INTERACTIVE GAME DESIGN (See websi			.,		
			•				
rt History		perEd course listings on page 7.)					
	58.101-011	Art Appreciation	M/W	6:30-10:00 pm	3	AE, Cultural Diversity	Charles Giuliano
	58.203-011	Survey of Art I	M-Th	8:00-10:20 am	3	AE, HS, Cultural Diversity	Cynthia Fowler
	58.221-011	Twentieth Century Art	M-Th	11:00 am-1:20 pm	1 3	AE, HS	Cynthia Fowler
	58.494-011	Directed Studies	TBA	TBA	3	AE	Liana Cheney
	05 044 044	B : OF : INC. III	NATI	0.00.11.00	•	D 05 100 05 101 0 05 010 01	
Biological	35.211-011	Basic Clinical Microbiology and Pathology	M-Th	9:00-11:20 am	3	P: 35.102, 35.104; C: 35.213; SL	Jacob Lam
ciences	35.213-011	Basic Clinical Micro. and Pathology Lab	M/T/W	Noon-3:20 pm		P: 35.102, 35.104; C: 35.211; SL	Jacob Lam
	83.101-011	Life Science I	M-Th	11:00 am-1:20 pm		C: 83.103; SL	Siu-Lam Lee
	83.101-012	Life Science I Life Science I Lab	T/Th	6:00-9:30 pm	3	C: 83.103; SL	Maureen Lyons-Wei Siu-Lam Lee
	83.103-011	Life Science I Lab	T/Th	2:00-4:00 pm	1 (2)	C: 83.101; SL	Siu-Lam Lee
Chemistry	(Also see Cyl	perEd course listings on page 7.)					
	84.111-011	General Chemistry I	M-Th	11:00 am-1:20 pm	1 3	SL	Judith Goldsberry
	84.113-011	General Chemistry Lab I			1 (3)	C: 84.111; SL	Paul Damour
	84.121-011	Chemistry I	M/W	6:30-10:00 pm	3	P: Science, Engineering and Engineering	Department Faculty
	04.121-011	Chemistry	101/00	0.50-10.00 pm	٠	Technology majors only; others with	Department racuity
						department permission; C: 84.123; SL	
	84.122-011	Chemistry II	T/Th	6:30-10:00 pm	3	P: 84.121; Science, Engineering and	Judith Goldsberry
	04.122-011	Chemistry	1/111	0.50-10.00 pm	3	Engineering Technology majors only; other	
						with department permission; C: 84.124; S	
	84.123-011	Chemistry Lab I	T/Th	6:30-10:00 pm	1 (3)	C: 84.121; SL	Paul Damour
	84.124-011	Chemistry Lab II	M/W	6:30-10:00 pm	1 (3)	P: 84.123; C: 84.122; SL	Department Faculty
							William Bannister
	84.221-011	Organic Chemistry I	M-Th	11:00 am-1:20 pm		P: 84.122, 84.124; C: 84.229; SL	
	84.229-011	Organic Chemistry Lab I	M/W/Th	2:00-6:00 pm	1 (4)	C: 84.221; SL	Judith Freeman
	86.131-011	Environmental Chemistry I	MM	6:30-10:00 pm	3	D 04400 04404 0 00005 01	Charles Panagiotako
	86.223-011	Principles of Organic Chemistry I	T/Th	6:30-10:00 pm	3	P: 84.122, 84.124; C: 86.225; SL	Gene Davis
	86.225-011	Principles of Organic Chemistry Lab I	M/W	6:00-10:00 pm	1 (4)	C: 86.223; SL	Judith Freeman
Cinema	52.335-011	Cinema and Italian Americans	M-Th	8:00-10:20 am	3	HV, AE	Mario Aste
	52.378-011	Italian Cinema and Culture	M-Th	11:00 am-1:20 pm		HV, AE	Mario Aste
ivil	14.203-011	Statics (alternate 22.211)	M-Th	11:00 am-1:20 pm	1 3	P: 92.132, 95.141	Jennifer Gorczyka
ngineering							
ivil	15 112 011	CAD	T/Th	6:30-10:00 pm	2 (2)	P: 23.101	Keyin Gagna
	15.113-011		T/Th			1.23.101	Kevin Gagne
ngineering echnology		IN ENVIRONMENTAL TECHNOLOGY (See IN LAND SURVEYING (See website for req					
ecimology	CENTIFICATE	. IN LAND SORVETING (See Website for req	uneu coul	363./			
Civil	CERTIFICATE	IN HAZARDOUS WASTE MANAGEMENT (See page	5 for required cour	ses.)		
ingineering		IN WATER TREATMENT (See page 5 for re			200.7		
echnology:		IN WATER TREATMENT (See page 3 for fer					
	CENTIFICATE	. IN VVASILVVAIEN INEATIVIENT (See page	J for requ	ineu courses.)			
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(See courses listed under Information Technology.)
CERTIFICATE IN CLIENT/SERVER DATABASE DESIGN AND ADMINISTRATION (See page 3 for required courses.)

Client/Server Technology

ON-SIT	No.	Title A A T LOCAL	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor		
omputer lathematics	(See courses li	isted under Information Technology.)							
omputer cience	(Also see Cybe 91.301-491		Th	5:00-8:00 pm	3	P: 91.250 or equivalent	Krishnan Seetharama		
ee also formation	91.305-021	(14 weeks; Held at Westborough) Computer Architecture (14 weeks)	T	5:00-8:00 pm	3	P: 91.203, 91.102	David Hendrickson		
echnology)	91.305-022 91.404-021	Computer Architecture (14 weeks) Analysis of Algorithms (14 weeks)	W	5:00-8:00 pm 5:30-8:30 pm	3	P: 91.203, 91.102 P: 91.204, 92.322	David Hendrickson Urska Cvek		
	91.404-022	Analysis of Algorithms (14 weeks)	W NAAA/	5:30-8:30 pm	3	P: 91.204, 92.322	Urska Cvek		
riminal ustice ee also	44.141-011 44.201-011 44.342-011	Police Process Computer Applications for Criminal Justice Criminal Profiling	M/W M/W M/W	6:00-9:30 pm 6:00-9:30 pm 2:00-5:30 pm	3 3 3	P: 44.101	Richard Stanley Douglas Morrow Thomas Diskin		
aralegal tudies)	44.380-011 44.381-011	Selected Issues: Organized Crime Ethics in Criminal Justice	T/Th T/Th	6:00-9:30 pm 6:00-9:30 pm	3		Charles Wilson Ronald Guilmette		
tudies)	44.496-011	Criminal Justice Practicum IN COMMUNITY POLICING (See website f	TBA	TBA	3	P: Instructor permission	Allan Roscoe		
	CERTIFICATE	IN PARALEGAL STUDIES (See website for	required of	courses.)					
conomics	49.201-011	erEd course listings on page 7.) Economics I (Microeconomics)	M-Th	11:00 am-1:20 pm		P: 90.111; BS	Department Faculty		
	49.201-012 49.202-011	Economics I (Microeconomics) Economics II (Macroeconomics)	M/W T/Th	6:00-9:30 pm 6:00-9:30 pm	3	P: 90.111; BS BS	Rudolph Matty Patricia Machado		
	49.211-011 49.211-012	Statistics I Statistics I	M-Th T/Th	8:00-10:20 am 6:00-9:30 pm	3	P: 92.122 or equivalent P: 92.122 or equivalent	Department Faculty Rudolph Matty		
lectrical and	16.311-011	Electronics I Lab	T/Th	4:00-7:00 pm	2 (3)	P: 16.202; C: 16.365	Alan Rux		
omputer ngineering	16.311-012 16.312-011 16.360-011	Electronics I Lab Electronics II Lab	T/Th M/W	6:30-10:00 pm 4:00-7:00 pm	2 (3)	P: 16.202; C: 16.365 P: 16.311; C: 16.366	Alan Rux Alan Rux		
	16.364-011 16.409-011	Electromagnetic Theory Engineering Mathematics Directed Studies	M-Th T/Th TBA	7:00-9:20 pm 6:00-9:00 pm TBA	3	P: 16.202, 92.234 P: 92.234, 16.201	Dikshitulu Kalluri A. J. Noushin		
	16.491-011	Industrial Experience	TBA	TBA	3	P: Department Faculty permission P: Permission by Alan Rux	Ziyad Salameh Alan Rux		
	16.492-011 16.493-011	Industrial Experience Industrial Experience	TBA TBA	TBA TBA	3	P: Permission by Alan Rux P: Permission by Alan Rux	Alan Rux Alan Rux		
lectronic ngineering	17.130-011 CERTIFICATE	Electrical Basics and Laboratory IN ELECTRONICS TECHNOLOGY (See page	T/Th	6:30-10:00 pm	2 (3)	P: 42.226, 90.267, 99.132	Jan Yang		
echnology	CERTIFICATE	IN ELECTRO-OPTICS (See website for requIN SEMICONDUCTOR MANUFACTURING	uired cours	ses.)	urses.)				
e principal		IN COMPUTER ENGINEERING TECHNOLO	OGY (See	page 4 for required	courses	.)			
nglish	42.101-011	erEd course listings on page 7.) College Writing I	M-Th	8:00-10:20 am	3		William Coughlin		
	42.101-012 42.102-011	College Writing I College Writing II	M/W M-Th	6:30-10:00 pm 11:00 am-1:20 pm		P: 42.101	Oliver Ford William Coughlin		
	42.102-012 42.103-011	College Writing I College Writing I for International	T/Th T/Th	6:30-10:00 pm 6:30-10:00 pm	3	P: 42.101	Bridget Driscoll C. Mahadeswaraswa		
	42.212-011	Students The Short Story	M-Th	8:00-10:20 am	3	P: 42.102; LT	Anthony Szczesiul		
	42.217-011 42.226-011*	Horror Story Technical and Scientific Communication	M-Th T/Th	Noon-2:00 pm 6:30-10:00 pm	3	P: 42.102; LT P: 42.102	Lucilia Valerio Peter Payack		
	42.232-011 42.267-011	Turning Fiction into Film Introduction to Shakespeare	M/W M-Th	6:30-10:00 pm 11:00 am-1:20 pm		P: 42.102 P: 42.102; LT	Dina Bozicas William Hersey		
	42.282-011 42.294-011	Crime in Literature History of American Literature I	M-Th M-Th	8:00-10:20 am 11:00 am-1:20 pm		P: 42.102; LT P: 42.102; LT	William Hersey Anthony Szczesiul		
	42.302-011 42.303-011	Creative Writing: Fiction Creative Writing: Poetry	M/W T/Th	6:30-10:00 pm 6:00-9:30 pm	3	P: 42.102 P: 42.102	Jay Atkinson Gregoire Turgeon		
	42.403-021 *Disease note t	Advanced Software Writing (12 weeks; no Fridays)	T	6:30-10:00 pm	3	P: 42.102	Stephen Murphy		
	CERTIFICATE	that students may not receive credit for bot IN TECHNICAL WRITING (See website for	required o	courses.)		AND THE PARTY OF T			
nvironmental cience	87.115-011 87.117-011	Astronomy Lab	T/Th M/W	6:30-10:00 pm 6:30-8:30 pm	3 1 (2)	C: 87.117 C: 87.115	Arnold O'Brien Arnold O'Brien		
raphic Design nd Digital	(See courses listed under Art and Information Technology.) CERTIFICATE IN GRAPHIC DESIGN AND DIGITAL IMAGING (See page 3 for required courses.)								
naging									
ealth rofessions	30.306-011	erEd course listings on page 7.) Introduction to Gerontology	T/Th	11:00 am-1:20 pm		BS	Judith Antonangeli		
	30.315-011	Kinesiology and Lab	M-F	11:00 am-1:20 pm	1 4	P: All freshmen, sophomore E.P. courses and 1 yr. of A.P. and 1 yr. of Physics			
	35.101-011 35.103-011	Human Anatomy and Physiology I Human Anatomy and Physiology I Lab	T/Th T/W/Th	6:00-9:30 pm 2:00-5:20 pm	3 1 (3)	C: 35.103; SL C: 35.101; SL	Paul Fierimonte Lauren Dirk		
	35.206-011 35.211-011	Human Nutrition Basic Clinical Microbiology and Pathology	T/Th M-Th	6:00-9:30 pm 9:00-11:20 am	3	P: 35.102, 35.104; C: 35.213; SL	Paul Fierimonte Jacob Lam		
	35.213-011 35.356-011	Basic Clinical Micro. and Pathology Lab Pharmacology	M/T/W M-Th	Noon-3:20 pm 8:00-10:20 am	1 (3)	P: 35.102, 35.104; C: 35.211; SL P: Junior level	Jacob Lam Arthur Vergados		
	36.350-011 CERTIFICATE	Human Biochemistry IN NUTRITION (See website for required co	M-Th ourses.)	11:00 am-1:20 pm	3	P: 35.252 or equivalent	Thomas Wilson		
istory see also <i>NEW</i>		erEd course listings on page 7.)	AATL	11.00 1.00		110			
rt History)	43.317-011 43.365-011 43.237-011	The Dynamics of Sexual Politics U.S. Since 1960 Europe in the Twentieth Century	M-Th T/Th M-Th	11:00 am-1:20 pm 6:00-9:30 pm 9:00-11:20 am	3 3	HS HS	Dean Bergeron Stephen Russell Barbara McCahill		
formation	(Also see Cybe	erEd course listings on page 7.)					Salbara MicCaffill		
echnology ncluding	Please note ti 90.160-011	hat a number of courses with a 92 prefix Introduction to Information Systems	T/Th	4:00-7:30 pm	d with a	a 90 prefix.	Adrianna Morris		
lultimedia nd Computer	90.171-011 90.202-011	Applications Software: Access Introduction to PCs and MS Office	T/Th T/Th	6:00-9:30 pm 6:00-9:30 pm	3		Department Faculty Terry Bass		
raphics	90.202-012 90.211-011*	Introduction to PCs and MS Office Intro. to Programming with C I	M/W M/W	6:00-9:30 pm 6:30-10:00 pm	3		Robin Desmond Department Faculty		
	90.211-012*	Intro. to Programming with C I Intro. to Programming with C II	M/W M/W	6:30-10:00 pm 6:30-10:00 pm	3	P: 90.211	Fuquan Gao Lisa Panagopoulos		
	90.212-012	Intro. to Programming with C II	T/Th	6:30-10:00 pm	3	P: 90.211	Department Faculty		
		Visual Basic							
	90.220-011		T/Th M/W	6:30-10:00 pm 6:30-10:00 pm	3	Windows and working knowledge of a high-level language Windows and working knowledge of a	John Pesce		

Minute.	No.	Title Charlespand D. (60) 40	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
	90.230-011 90.231-011	Intro. to Multimedia/Windows Graphics for Multimedia and the World Wide Web/Windows	M/W T/Th	6:30-10:00 pm 6:30-10:00 pm	3	P: 90.230	Chris Perry Marina Javis
	90.233-021	Multimedia Authoring Software: Director/	T	7:00-10:30 pm	3	P: 90.230	Beatrice Lee
	90.234-021	Windows (12 weeks; no Fridays) Designing and Developing Interactive	W	6:30-10:00 pm	3	P: 90.230, 90.231, 90.232,	Rain Breaw
	90.238-021	Media (12 weeks; no Fridays) Web Development: FrontPage/Windows	Th	7:00-10:30 pm	3	or instructor permission P: 90.291; 90.231 recommended	Nancy Peaslee
	90.238-022	(12 weeks; 1 Friday mtg: 6/15)	М	6:00-9:30 pm	3	P: 90.291; 90.231 recommended	Department Faculty
		(12 weeks; no Fridays)		to the Wilderson of the			Department Faculty
	90.247-021	Advanced Web Authoring: Flash/Mac (12 weeks; no Fridays)	М	6:30-10:00 pm	3	P: 90.291; 90.302 or programming familiarity helpful	
	90.267-011* 90.267-012*	C Programming C Programming	M/W T/Th	6:00-9:30 pm 6:00-9:30 pm	3	P: previous programming experience P: previous programming experience	Lee Clark Nancy Kiernan
	90.267-013* 90.267-041*	C Programming C Programming	T/Th T/Th	6:30-10:00 pm 5:00-8:30 pm	3	P: previous programming experience P: previous programming experience	Timothy Niesen Fuguan Gao
		(Held at Veterans Administration Medical (Center, Be	dford, MA)			
	90.268-041	C++ Programming (Held at Hanscom Air Force Base, Bedford	M/W d, MA)	5:00-8:30 pm	3	P: 90.267 or 90.212	Justin Seiferth
	90.270-011	Visual C++ Introduction to HTML	M/W M/W	6:30-10:00 pm 6:30-10:00 pm	3	P: 90.268	Barbara Bancroft David Sciuto
	90.291-041	Introduction to HTML	T/Th	5:00-8:30 pm	3		Janine Jacques
	90.292-011	(Held at Hanscom Air Force Base, Bedford Advanced HTML	T/Th	6:30-10:00 pm	3	P: 90.291	David Sciuto
	90.301-011 90.303-021	Java Programming/Windows Advanced Java Programming (12 weeks)	T/Th Sat	6:00-9:30 pm 9:00 am-12:30 pr	3 n 3	P: 90.268 or 90.297 P: 90.301	Elizabeth Carbone Siva Ghatti
	90.311-011	Introduction to the UNIX Operating System	T/Th	6:30-10:00 pm	3		Andrew Garside
	90.311-012 90.312-011	Introduction to the UNIX Operating System UNIX Shell Programming	M/VV M/W	6:30-10:00 pm 6:30-10:00 pm	3	P: 90.311, and 90.212 or 90.267	Partha Mittra Sean McGowan
	90.319-011 90.360-011	Introduction to Linux Introduction to Data Structures Using C	M/W T/Th	6:30-10:00 pm 6:30-10:00 pm	3	P: 90.267 or 90.212, and 90.364	T. Michael Cummings Dan Leach
	90.360-021	Introduction to Data Structures/C (12 weeks) Th	6:30-10:00 pm	3	P: 90.267 or 90.212, and 90.364	Siva Ghatti
	92.363-011 90.443-011	Introduction to Data Analysis Fundamentals of Client/Server Computing	M-Th M/W	11:00 am-1:20 pr 6:30-10:00 pm	n 3	P: 92.183 or equivalent	Alexander Olsen Department Faculty
	90.454-011 90.461-011	Introduction to PL/SQL LAN/WAN Technologies	T/Th M/W	6:30-10:00 pm 6:30-10:00 pm	3	P: 90.474 P: 90.267 or previous prog. experience	Jeffrey Yang Department Faculty
	90.462-041	TCP/IP and Network Architecture	M/W	5:00-8:30 pm	3	P: 90.461	Tom Stephenson
	90.463-011	(Held at Veterans Administration Medical (Advanced Networking Technology	Center, Be T/Th	edford, MA) 6:30-10:00 pm	3	P: 90.461	Department Faculty
	90.464-011	Network Management Relational Database Concepts	M/W M/W	6:00-9:30 pm 6:00-9:30 pm	3	P: 90.461 or 90.472 P: 90.267	Jaime Fernandez Paul Giguere
	*Students wil	I not receive credit for both 90.267 and the IN CLIENT/SERVER DATABASE DESIGN A	90.211/90	.212 sequence.			radi diguere
Maji adoswaraswarov	CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE	IN DATA/TELECOMMUNICATIONS (See part IN FUNDAMENTALS OF INFORMATION TO IN INTRANET DEVELOPMENT (See page 4 IN MULTIMEDIA APPLICATIONS (See page IN UNIX (See page 4 for required courses.) IN WEBSITE DESIGN AND DEVELOPMENT	ECHNOLO 4 for require 3 for require 17 (See page 17)	OGY (See page 3 for red courses.) uired courses.)	Basine.	d courses.)	
Interactive Game Design		listed under Art and Information Technology IN INTERACTIVE GAME DESIGN (See web		quired courses.)		ALLEGE OF STREET STREET STREET STREET	
Languages	50.211-011 52.335-011	Intermediate Conversational French I Cinema and Italian Americans	M-Th M-Th	8:00-10:20 am 8:00-10:20 am	3	HV, AE	Department Faculty Mario Aste
	52.378-011	Italian Cinema and Culture	M-Th	11:00 am-1:20 pr	m 3	HV, AE	Mario Aste
	54.101-011 54.101-012	Beginning Spanish I Beginning Spanish I	M-Th M/W	8:00-10:20 am 6:30-10:00 pm	3		J. Heli Hernandez Margot Girodet
	54.211-011 54.211-012	Intermediate Conversational Spanish I Intermediate Conversational Spanish I	M-Th T/Th	11:00 am-1:20 pr 6:30-10:00 pm		P: 54.102 or equivalent P: 54.102 or equivalent	J. Heli Hernandez Department Faculty
		IN SPANISH (See website for required cour		0.30-10.00 pm	3	r. 54.102 of equivalent	Department Faculty
Legal Studies	41.262-011	Introduction to Business Law	T/Th	6:30-10:00 pm	3	BS, Collateral to Criminal Justice	J. Alan Roberts
(see also Paralegal	41.363-011 41.376-011	Corporate and Property Law Family Law	T/Th M/W	6:30-10:00 pm 6:30-10:00 pm	3		Eugene Reardon Russell Karl
Studies) NEW	41.394-011	Ancient Legal Systems IN PARALEGAL STUDIES (See website for	M/W	6:30-10:00 pm	3		Robert Yelle
			requireu				
Management	(Also see Cyb 61.301-011	erEd course listings on page 7.) Business Finance	T/Th	6:00-9:30 pm	3	P: BSBA students and College of	Frank Andrews
	62.201-011	Marketing Principles	M/W	6:00-9:30 pm	3	Management Dean permission P: 47.101, 48.101, 49.201	Michael Mullen
	63.210-011	Operations Analysis	M/W	7:30-11:00 am	3	P: 49.211	M. Riaz Khan
	66.490-011	Strategic Management	M/W	9:00-12:30 pm	3	P: 61.301, 62.201, 63.371, 66.301, and 96 credits; BSBA students and	Louis Zivic
						College of Management Dean permission priority for Summer 2001 graduates	on;
		es with the 69 prefix are not intended for maday programs.	atriculating	g University of Mas	ssachuset		fer into the College of
Mathematics	(Also see Cyb	erEd course listings on page 7.)					
(see also Information		Fundamentals of Algebra Quantitative Reasoning (formerly Math	T/Th M-Th	6:30-10:00 pm 11:00 am-1:20 pr	3 m 3	Liberal Arts majors; MA	Anthony Sokolowski Stanley Spiegel
Technology)		Perspectives)		AND STATE			
	92.121-011**		M-Th	8:00-10:20 am	3	P: 90.111 or equivalent or placement exam;*** MA; course is not a substitute	
	92.121-012**	Precalculus Mathematics I	T/Th	6:00-9:30 pm	3	P: 90.111 or equivalent or placement exam;*** MA; course is not a substitute	Candice Weston
	92.122-011	Management Calculus	M-Th	11:00 am-1:20 pi		P: 92.121; MA	Alan Kaplan
	92.122-012 92.123-011	Management Calculus Precalculus Mathematics II	M/W M/W	6:00-9:30 pm 6:00-9:30 pm	3	P: 92.121; MA P: 90.121; MA	Department Faculty Robert Johnson
	92.125-011 92.126-011	Calculus A Calculus B	T/Th M/W	6:00-9:30 pm 6:00-9:30 pm	3	P: 92.123; MA; for Cont. Ed. students only P: 92.125; MA; for Cont. Ed. students only	
	92.131-021	Calculus I (12 weeks)	M/W/F	10:00 am-Noon	4	MA	Marvin Stick
	92.131-022 92.132-021	Calculus I (12 weeks) Calculus II (12 weeks)	M/W/F M/W/F	8:00-10:00 am 8:00-10:00 am	4	MA P: 92.131; MA	John Lahoud Marvin Stick
	92.132-022 92.183-011	Calculus II (12 weeks) Introduction to Statistics	M/W/F M-Th	10:00 am-Noon 8:00-10:20 am	4	P: 92.131; MA P: 90.111 or equivalent; MA	Department Faculty Alexander Olsen

: Xoleani	No.	Title Open payor 20.0 (ect) \$3	Eve	Time C	r (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
	92.183-012	Introduction to Statistics	T/Th	6:00-9:30 pm	3	P: 90.111 or equivalent; MA	Department Faculty
	92.225-011 92.231-011	Calculus C Calculus III	T/Th M-F	6:00-9:30 pm 11:00 am-1:20 pm	3 4	P: 92.126; MA; for Cont. Ed. students only P: 92.132; MA	Rida Mirie
	92.234-011 92.234-012	Differential Equations Differential Equations	M-Th T/Th	8:00-10:20 am 6:30-10:00 pm	3	P: 92.132 or 92.225; MA P: 92.132 or 92.225; MA	Vidhu Prasad Rida Mirie
	92.310-011	Introduction to Chaos and Dynamical	M/W	3:15-6:45 pm	3	P: A thorough knowledge of the	Vidhu Prasad
		Systems				Calculus sequence and familiarity and comfort with proofs in mathematics	
	92.321-011 92.363-011	Discrete Structures I Introduction to Data Analysis	T/Th M-Th	3:15-6:45 pm 11:00 am-1:20 pm	3	P: 90.112 or 92.121 P: 92.183 or equivalent	Department Faculty Alexander Olsen
	92.386-011	Statistics for Engineering and Science	M/W	6:00-9:30 pm	3	P: 92.225 or 92.231	Lee Jones
	92.407-011 *Fundamenta	Probability and Mathematical Statistics I Is of Algebra (90.111) is a preparatory course	M/W e and car	6:00-9:30 pm nnot be credited towar	d a deg	P: 92.225 or 92.232 gree program at the University of Massac	Lee Jones husetts Lowell.
	of 90.112 and ***Placement Many 500-leven the Graduate S	ill not receive credit for both 90.112 and 92. 90.119. t exam is given the first evening of class. el courses are well within the grasp of uppe School for admissions procedures. Universits with a 90 prefix.	r level ur	ndergraduates and may	be us	ed as electives. Refer to the Graduate Sc	hool listing and cont
nanical neering	22.211-011 22.403-011	Statics (alternate 14.203) M.E. Lab II: Measurement Engineering	M-Th T/Th	11:00 am-1:20 pm 3:00-7:15 pm	3 3 (4)	P: 92.132, 95.141 P: 22.302, 22.311, 22.341, 22.381	Jennifer Gorczyca Glen Bousquet
hanical	23.200-011	CADrf IN COMPUTER-ASSISTED MANUFACTURI	M/W	6:30-10:00 pm	3	P: 23.101	Norman Truscott
ineering inology iufacturing ion	CERTIFICATE	IN MANUFACTURING TECHNOLOGY (See IN QUALITY ASSURANCE (See website for	website	for required courses.)			
timedia lications		under Art, Information Technology, and Cor IN MULTIMEDIA APPLICATIONS (See page					
ic	For Summer N 71.102-011	Music Education Program, see page 5. Music Theory 2	M-Th	8:00-10:20 am	3	P: 71.101	Lisa Cleveland
	71.104-011 71.110-011	Aural Skills 2 Basic Music Theory	M-Th M/W	11:00 am-12:45 pm 6:30-10:00 pm	1 (2)	P: 71.103 Non-Music majors; AE	Mark Peterson Department Facult
	71.201-011	Music Theory 3	M-Th	8:00-10:20 am	3	P: 71.102	Mark Peterson
	71.203-011 74.261-011	Aural Skills 3 Survey of Music History 1	M-Th M-Th	11:00 am-12:45 pm 8:00-10:20 am	1 (2)	P: 71.104	Lisa Cleveland John Ogasapian
	77.499-021 78.493-021	Music Business Internship (14 weeks) Internship in Sound Recording Technology	TBA	TBA TBA	3	P: Permission of Chair P: Permission of Chair	William Moylan William Moylan
annes de la company	76.493-021	(14 weeks)	IDA	IDA	0	F. Fermission of Chair	VVIIIIaiTi IVIOyiaii
egal Iso	41.363-011 41.376-011	Corporate and Property Law Family Law	T/Th M/W	6:30-10:00 pm 6:30-10:00 pm	3		Eugene Reardon Russell Karl
Studies	44.497-011	Paralegal Practicum	TBA	TBA	3	P: minimum of 3 paralegal	Department Facult
riminal e)	CERTIFICATE	IN PARALEGAL STUDIES (See website for	required	courses and admissio	n requi	courses and permission of Chair; call (978) 934-2765 rements.)	
sophy	45.201-011	Introduction to Philosophy	T/Th	6:00-9:30 pm	3	VC, HV	Thomas Hersey
	45.201-012 45.202-011	Introduction to Philosophy Introduction to Logic	M-Th T/Th	8:00-10:20 am 6:30-10:00 pm	3	VC, HV VC, HV	Donald LeBlanc Peter Skagestad
	45.203-011 CERTIFICATE	Introduction to Ethics IN CONTEMPORARY COMMUNICATIONS	M/W (See pa	6:30-10:00 pm ge 5 for required cours	3 ses.)	VC, HV	Tracey Stark
cs	95.103-011	General Physics I	M-Th	8:00-10:20 am	3	P: Algebra; C: 96.103; SL	Arthur Mittler
	95.141-011	Physics I	M-F	8:00-10:20 am	3 (4)	C: 92.131, 96.141; SL	F. Raymond Hardy
	95.144-011 96.103-011	Physics II Experimental General Physics I	M-F T/Th	8:00-10:20 am 2:00-5:00 pm	3 (4) 1 (2)	P: 95.141; C: 92.132, 96.144; SL C: 95.103 or 95.201; SL	Kunnat Sebastian Arthur Mittler
	96.141-011	(2 days/week) Experimental Physics I (2 days/week)	M/W	2:00-5:00 pm	1 (2)	C: 95.141; SL	F. Raymond Hardy
	96.144-011	Experimental Physics II (2 days/week)	T/Th	2:00-5:00 pm	1 (2)	P: 96.141; C: 95.144; SL	David Pullen
	99.102-011	Radiation and Life Lab	T/Th	2:00-5:00 pm	1 (2)	C: 99.101; SL	Anthony Stevens
cs	27.451-011 27.453-011	Selected Topics II	M/W T/Th	6:30-10:00 pm 6:30-10:00 pm	3	P: Coordinator permission P: Coordinator permission	Department Facult Department Facult
	Note: Courses	s with the 27 prefix are not eligible for gradu IN PLASTICS ENGINEERING TECHNOLOG	ate cred	it.			
cal	46.101-011	Introduction to American Politics	MW	6:30-10:00 pm	3	BS	Francis Talty
ce NEW	46.230-011 46.316-011	Law and the Legal System Politics and Film	T/Th M-Th	7:00-10:00 pm 11:00 am-1:20 pm	3		P. Sullivan Talty Jeffrey Gerson
NEW	46.327-011	The Dynamics of Sexual Politics	M-Th	11:00 am-1:20 pm	3		Dean Bergeron
ology		erEd course listings on page 7.)	TC	0.00.10.00	•	DC	Alexandria
	47.101-011 47.209-011	General Psychology Social Psychology	T/Th M/W	6:30-10:00 pm 6:30-10:00 pm	3	BS Human Values, BS	Alexandria Weida Reuben Russell
	47.260-011 47.272-011	Human Development I Abnormal Psychology	M/W T/Th	6:00-9:30 pm 6:00-9:30 pm	3	BS	Doreen Arcus John Bayliss
	47.328-011	Dynamics of Interpersonal Relations	M/W	6:00-9:30 pm	3	D. 47 101	Noel Cartwright
	47.361-011	Problem and Issues in Childhood and Adolescence	T/Th	6:30-10:00 pm	3	P: 47.101	S. McLaughlin-Bel
	47.373-011 47.475-011	Brain, Mind and Behavior Seminar: Clinical Psychology	M-Th M/W	8:00-10:20 am 2:15-5:35 pm	3	P: 47.101 P: 47.272 or instructor permission	Mary Duell Peter Hantzis
ological ace	(See Physics.)					er in monthly in the many in the second of t	
The Party of the P	57.475-011	Community Conflict Resolution	T/Th	6:30-10:00 pm	3		David Turcotte
onal omic Social Jopment							
omic Social Sopment		erEd course listings on page 7.)				- valentiti sesti unteres i la sespetici el	
omic	(Also see Cyb 48.101-011 48.260-011	erEd course listings on page 7.) Introduction to Sociology Sociology of Mass Media	M-Th T/Th	8:00-10:20 am 6:30-10:00 pm	3 3	BS P: 48.101	Levon Chorbajian Levon Chorbajian

	No Maketing 7/17 9	Eve Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
Technical	42.403-021 Advanced Software Writing (12 weeks: no Fridays)	T 6:30-10:00 pm	3	P: 42.402	Stephen Murphy
Writing	Technical Writing courses are open to undergraduate CERTIFICATE IN TECHNICAL WRITING (See websit				
Water/Waste- water Option	(See Civil Engineering Technology: Water/Wastewat CERTIFICATE IN WASTEWATER TREATMENT (See CERTIFICATE IN WATER TREATMENT (See page 5 to	page 5 for required courses.)			
Website Design and Development	(See courses under Art and Information Technology.) CERTIFICATE IN WEB DESIGN AND DEVELOPMEN		es.)		

Summer Session II

Day Classes begin on July 9 and meet Monday through Thursday for 3-credit courses and meet Monday through Friday for 4-credit courses.

M/W Evening Classes begin on July 9 and include 2 FRIDAYS: July 13 and July 27 at the regularly scheduled hours.

T/Th Evening Classes begin on July 10 and include 2 FRIDAYS: July 20 and August 3 at the regularly scheduled hours.

Reminder: this course listing combines the University of Massachusetts Lowell day school courses and the continuing studies courses. It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

		check course numbers and prerequisites to en	nsure enro	llment in the correct cla	ass.		
	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
Accounting	(Also see Cyb	erEd course listings on page 7.)					
	60.202-021	Accounting/Managerial	M-Th	8:00-10:00 am	3	P: 60.201 or 67.102	Harry Sauter
	60.331-021	Cost Management Systems	T/Th	7:00-10:00 pm	3	P: 60.202, BSBA (non-Accounting students and College of Management Dean permission)	Paul Brown
	CERTIFICATE	IN ACCOUNTING (See website for required	d courses.)		Dean permission,	
rt/Computer raphics	(See listings of CERTIFICATE CERTIFICATE	ormation Technology for additional Multimedi under Summer I for 12-week offerings.) IN GRAPHIC DESIGN AND DIGITAL IMAGI IN WEBSITE DESIGN AND DEVELOPMEN IN INTERACTIVE GAME DESIGN (See web	NG (See pa	page 3 for required co ge 3 for required cou	ourses.		
art History		perEd course listings on page 7.)	T/Th	7:00 10:00	2	AC/Cultural Diseasity	Chadas Civlians
NEW	58.101-021 58.205-021	Art Appreciation Studies in World Art: Native American Art	T/Th	7:00-10:00 pm 10:30 am-12:30 pm	3	AE/Cultural Diversity AE/HS	Charles Giuliano Cynthia Fowler
, we we	58.494-021	Directed Studies	TBA	TBA	3	HSA	Liana Cheney
Biological NEW	82.205-021	Genetics for the Computer Scientist	T/Th	6:00-9:00 pm	3		James Lyons-Weiler
ciences	83.214-021	and Mathematician Human Ecology	M-Th	10:30 am-12:30 pm	3	SL	Priscilla Mattson
hemistry	84.112-021	General Chemistry II	M-Th	10:30 am-12:30 pm	. 2	P: 84.111; SL	Department Faculty
nemistry	84.114-021	General Chemistry II Lab	M/W/Th		1 (3)	P: 84.113; C: 84.112; SL	Athena Letsou
	84.122-021	Chemistry II	M/W	7:00-10:00 pm	3	P: 84.121; Science, Engineering and Engineering Technology majors only; ot with department permission; C: 84.124	Judith Goldsberry hers
	84.122-022	Chemistry II	M-T	2:00-5:00 pm	3	P: 84.121; Science, Engineering and Engineering Technology majors only; ot with department permission; C: 84.124	Paul Damour hers
	84.124-021	Chemistry Lab II	T/Th	7:00-10:00 pm	1 (3)	P: 84.123; C: 84.122; SL	Paul Damour
	84.222-021	Organic Chemistry II A	M-Th	10:30 am-12:30 pm	1 3	P: 84.221; C: 84.230; SL	Gene Davis
	84.230-021	Organic Chemistry Lab II A	M/W/Th		1 (4)	P: 84.229; C: 84.222; SL	Judith Freeman
	86.132-021	Environmental Chemistry II	MW	7:00-10:00 pm	3	P: 86.131; SL	Charles Panagiotako
	86.224-021 86.226-021	Principles of Organic Chemistry II Principles of Organic Chemistry Lab II	T/Th M/W	7:00-10:00 pm 6:00-10:00 pm	3 1 (4)	P: 86.223; C: 86.226; SL P: 86.225; C: 86.224; SL	Gene Davis Judith Freeman
Cinema	52.374-021 52.380-021	Classics of Italian Cinema Italian Cinema: Directors and Themes	M-Th M-Th	10:30 am-12:30 pm 8:00-10:00 am	3	HV, AE HV, AE	Mario Aste Mario Aste
ivil ngineering	14.204-021 14.205-021	Strength of Materials (alternate 22.212) Dynamics (alternate 22.213)	T/Th M/W	10:30 am-12:30 pm 7:00-10:00 pm	3	P: 14.203 P: 14.203, 92.132	Jennifer Gorczyka Fuquan Gao
civil Ingineering Technology	CERTIFICATE CERTIFICATE	IN ENVIRONMENTAL TECHNOLOGY (See IN LAND SURVEYING (See website for req	page 4 fo	or required courses.)		My no epithol section 72 to 2.5 5 50 mg. We have a feel to 4 to 12 to 1	
Civil Engineering Fechnology: Water/ Wastewater Option	CERTIFICATE	IN HAZARDOUS WASTE MANAGEMENT (IN WATER TREATMENT (See page 5 for re- IN WASTEWATER TREATMENT (See page	quired cou	urses.)	es.)		
Computer Science see also nformation Technology)		perEd course listings on page 7.) under Computer Science in Summer I for add Exploring the Internet	ditional 14 T/Th	l-week offerings.) 7:00-10:00 pm	3	A 103-081 Page of Raigo Charles A 103-081 Pagement Spanish ii A 103-082 Pagement Spanish iii A 103-082 Pagement Spanish iii A 103-082 Pagement Spanish iii A 103-082 Pagement Spanish iiii A 103-082 Pagement Spanish iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Department Faculty
Criminal Justice	44.101-021 44.251-021	Introduction to Criminal Justice Institutional Corrections	T/Th M/W	6:00-9:00 pm 7:00-10:00 pm	3 3		Claire Murphy Carol Higgins
see also	44.261-021	Juvenile Delinquency	M/W	6:00-9:00 pm	3		Steven Sacco
aralegal	44.496-021	Practicum	TBA	TBA	3	P: Instructor permission	Allan Roscoe
tudies)		IN COMMUNITY POLICING (See website for IN PARALEGAL STUDIES (See website for					

	No.	Title *** (***) *** (***) ***	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
Economics	49.201-021 49.201-022 49.202-021 49.211-021 49.212-021	Economics I (Microeconomics) Economics I (Microeconomics) Economics II (Macroeconomics) Statistics I Statistics II	M-Th M/W T/Th M-Th T/Th	8:00-10:00 am 6:00-9:00 pm 7:00-10:00 pm 10:30-12:30 pm 6:00-9:00 pm	3 3 3 3 3	BS BS BS P: 92.122 or equivalent; BS P: 49.211; BS	Department Faculty Rudolph Matty Patricia Machado Department Faculty Rudolph Matty
lectrical and computer ngineering	16.312-021 16.312-022 16.491-021 16.492-021 16.493-021	Electronics II Laboratory Electronics II Laboratory Industrial Experience Industrial Experience Industrial Experience	T/Th T/Th TBA TBA TBA	4:00-7:00 pm 7:00-10:00 pm TBA TBA TBA	3 3 3 3 3	P: 16.311; C: 16.366 P: 16.311; C: 16.366 P: Permission by Alan Rux P: Permission by Alan Rux P: Permission by Alan Rux	Alan Rux Alan Rux Alan Rux Alan Rux Alan Rux
inglish	42.101-021 42.102-021 42.102-022 42.104-021 42.212-021 42.217-021 42.224-021* 42.232-021 42.295-021 42.304-021 *Please note	erEd course listings on page 7.) College Writing I College Writing II College Writing II College Writing II for International Students The Short Story The Horror Story Business Writing Fiction Into Film History of American Literature II Creative Writing: Screenwriting that students may not receive credit for bot IN TECHNICAL WRITING (See website for	M-Th T/Th M/W M/W M-Th M/W th 42.224 a	7:00-10:00 pm 10:30 am-12:30 pi 7:00-10:00 pm 7:00-10:00 pm 8:00-10:00 am 7:00-10:00 pm 6:00-9:00 pm 7:00-10:00 pm 10:30 am-12:30 pi 7:00-10:00 pm and 42.226.	3 3 3 3 3	P: 42.101 P: 42.101 P: 42.103 P: 42.102; LT P: 42.102; LT P: 42.102 P: 42.102; LT P: 42.102	Mary Hojnacki Oliver Ford Department Faculty C. Mahadeswaraswan Dina Bozicas Henry Venuti Jeffrey Evangelista Jeannie Lloyd Henry Venuti Richard Farrell
raphic Design nd Digital naging		listed under Art and Information Technolog IN GRAPHIC DESIGN AND DIGITAL IMAG		page 3 for required	courses.		
Health Professions	30.305-021 30.307-021 35.102-021 35.104-021	erEd course listings on page 7.) Exercise Physiology Lecture Exercise Physiology Lab Human Anatomy and Physiology II Human Anatomy and Physiology II Lab IN NUTRITION (See website for required o	T/Th T/W/Th	8:00-10:00 am 10:30 am-1:30 pm 6:00-9:00 pm 2:00-5:00 pm	4 1 (3) 3 1 (3)	P: A. and P., Chemistry; SL C: 30.305; SL P: 35.101; C: 35.104; SL P: 35.103; C: 35.102; SL	Sean Collins Sean Collins Paul Fierimonte Alease Bruce
istory see also rt History)	(Also see Cyb 43.106-021 43.112-021 43.314-021	erEd course listings on page 7.) The Modern World U.S. History Since 1877 U.S. Social History Since 1880	M/W T/Th M/W	6:00-9:00 pm 7:00-10:00 pm 7:00-10:00 pm	3 3 3	HS HS HS	Alice Walters Harry Hubbard Robert Lemire
nformation echnology ncluding fultimedia nd Computer Graphics)	90.160-021 90.171-021 90.202-021 90.202-022 90.211-021* 90.220-021 90.220-021 90.220-021 90.267-021* 90.267-022* 90.268-021 90.230-021 90.291-021 90.291-021 90.301-021 90.301-021 90.311-021 90.311-021 90.311-021 90.311-021 90.311-021 CERTIFICATE	chart a number of courses with a 92 prefix Introduction to Information Systems Applications Software: Access Introduction to PCs & MS Office Introduction to PCs & MS Office Introduction to Programming with C Introduction to Programming with C Introduction to Programming with C II Visual Basic C Programming C Programming C++ Programming Introduction to Multimedia/Windows Graphics for Multimedia/Windows Introduction to HTML Introduction to HTML Java Programming/Windows Java Programming/Windows Introduction to XML Introduction to UNIX Operating System UNIX Shell Programming Fundamentals of Client/Server Computing LAN/WAN I not receive credit for both 90.267 and the IN CLIENT/SERVER DATABASE DESIGN A IN CONTEMPORARY COMMUNICATIONS IN DATA/TELECOMMUNICATIONS (See page IN FUNDAMENTALS OF INFORMATION IN INTRANET DEVELOPMENT (See page IN MULTIMEDIA APPLICATIONS (See page IN UNIX (See page 4 for required courses.) IN WEBSITE DESIGN AND DEVELOPMENT	M/W T/Th M/W T/Th M/W T/Th T/Th T/Th T/Th M/W M/W T/Th T/Th T/Th M/W M/W T/Th T/Th T/Th M/W M/W T/Th T/Th T/Th T/Th T/Th M/W M/W T/Th T/Th T/Th T/Th T/Th T/Th T/Th T/	7:00-10:00 pm 6:00-9:00 pm 7:00-10:00 pm 7:00-10:00 pm 7:00-10:00 pm 7:00-10:00 pm 7:00-10:00 pm 7:00-10:00 pm 6:00-9:00 pm 6:00-9:00 pm 7:00-10:00 pm	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P: 90.211 P: Windows and working knowledge of a high-level language P: Windows and working knowledge of a high-level language P: previous programming experience P: previous programming experience P: 90.267 or 90.212 P: 90.267 or 90.212 P: 90.268 or 90.297 P: 90.268 or 90.297 P: Mastery of HTML and familiarity of database P: 90.267 or 90.211, and 90.364 P: 90.311 P: 90.267	Department Faculty Department Faculty Adrianna Morris Department Faculty Department Faculty Department Faculty Leo Javis Arthur Chadbourne Lee Clark Nancy Kiernan Department Faculty Dan Leach Chris Perry Marina Javis Janine Jacques Department Faculty Department Faculty Elizabeth Carbone David Sciuto Partha Mittra Department Faculty Isobel Davis Department Faculty
nteractive Same Design	(See courses CERTIFICATE	listed under Art and Information Technolog IN INTERACTIVE GAME DESIGN (See we	y.) bsite for re	equired courses.)			
anguages	50.212-021 52.374-021 52.380-001 54.102-021 54.102-022 54.212-021 54.212-022 CERTIFICATE	Intermediate Conversational French II Classics of Italian Cinema Italian Cinema: Directors and Themes Beginning Spanish II Beginning Spanish II Intermediate Conversational Spanish II Intermediate Conversational Spanish II IN SPANISH (See website for required cou	M-Th M-Th M-Th M-Th M/W M-Th T/Th	10:30 am-12:30 p 10:30 am-12:30 p 8:00-10:00 am 8:00-10:00 am 7:00-10:00 pm 10:30 am-12:30 p 7:00-10:00 pm	m 3 3 3	P: 50.211 or equivalent VC, AE VC, AE P: 54.101 or equivalent P: 54.101 or equivalent P: 54.211 or equivalent P: 54.211 or equivalent	Roger Lacerte Mario Aste Mario Aste J. Heli Hernandez Margot Girodet J. Heli Hernandez Department Faculty
egal otudies see also aralegal otudies)	41.370-021 41.376-021 41.381-021 41.387-021 CERTIFICATE	Real Estate Law Family Law Women and the Law Legal Research Methods IN PARALEGAL STUDIES (See website fo	M/W T/Th M/W T/Th r required	7:00-10:00 pm 7:00-10:00 pm 7:00-10:00 pm 7:00-10:00 pm courses.) Call 978-9	3 3 3 3 3 34-2765	for more information.	J. Alan Roberts Russell Karl Department Faculty Nancy Dick

nagement	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
		rEd course listings on page 7.) Investments	T/Th	6:00-9:00 pm	3	P: College of Management filter courses, BSBA students and College	Frank Andrews
	69.276-021 NOTE: Courses Management of	Entrepreneurial Management s with the 69 prefix are not intended for malay programs.	T/Th natriculatin	7:00-10:00 pm ag University of Mass	3 achuset	of Management Dean permission Not for BSBA students ts Lowell day students and will not transf	Mel Epstein fer into the College of
thematics e also		erEd course listings on page 7.) Fundamentals of Algebra	M/W	7:00-10:00 pm	3		Eugene Welch, Jr.
ormation		Precalculus Mathematics I	M-Th	8:00-10:00 pm	3	P: 90.111 or equivalent or placement	Department Faculty
hnology)	92.121-022**	Precalculus Mathematics I	M/W	7:00-10:00 pm	3	exam;*** MA; course is not a substitute P: 90.111 or equivalent or placement	Candice Westo
	92.122-021	Management Calculus	M-Th	10:30 am-12:30 pr	n 3	exam;*** MA; course is not a substitute P: 92.121; MA	e for 92.127 Department Faculty
	92.123-021	Precalculus Mathematics II	T/Th	7:00-10:00 pm	3	P: 90.121; MA	Terence Watterson
		Calculus A Calculus B	T/Th M/W	7:00-10:00 pm 7:00-10:00 pm	3	P: 92.123; MA; for Cont. Ed. students only P: 92.125; MA; for Cont. Ed. students only	
	92.183-021	Introduction to Statistics	M-Th	8:00-10:00 am	3	P: 90.111 or equiv.; MA P: 90.111 or equiv.; MA	Alexander Olsen Alexander Olsen
	92.226-021	Introduction to Statistics Calculus D	M/W M/W	7:00-10:00 pm 7:00-10:00 pm	3	P: 92.225; MA; for Cont. Ed. students only	Department Facult
	92.231-021 92.234-021	Calculus III Differential Equations	M-F T/Th	10:30 am-12:30 pr 7:00-10:00 pm	n 4	P: 92.132; MA P: 92.132 or 92.225; MA	Rida Mirie Rida Mirie
	92.321-021	Discrete Structures I	M/W	7:00-10:00 pm	3	P: 90.112 or 92.121	Anthony Penta
	92.386-021 92.407-021	Statistics for Science and Engineering Probability and Mathematical Statistics I	M/W M/W	6:00-9:00 pm 6:00-9:00 pm	3	P: 92.225 or 92.231 P: 92.225 or 92.231	Lee Jones Lee Jones
	92.450-021 *Fundamentals	Mathematical Modeling s of Algebra (90.111) is a preparatory cour	T/Th	6:00-9:00 pm	3 and a day	P: 92.231	James Graham-Eag
	***Placement Many 500-leve the Graduate S	exam is given the first evening of class. Il courses are well within the grasp of upp School for admissions procedures. Univers with a 90 prefix.	er level ur	ndergraduates and m	ay be us	ed as electives. Refer to the Graduate Sc	chool listing and cont
chanical ineering	22.212-021 22.213-021	Strength of Materials (alternate 14.204) Dynamics (alternate 14.205)	M-Th M/W	10:30 am-12:30 pr 7:00-10:00 pm	m 3	P: 22.211 P: 22.211, 92.132	Jennifer Gorczyca Fuquan Gao
chanical		IN COMPUTER-ASSISTED MANUFACTUR					
ineering nnology and nufacturing ion	CERTIFICATE I	IN MANUFACTURING TECHNOLOGY (Se IN QUALITY ASSURANCE (See website for	e website	for required courses			
timedia dications		r Mathematics Option and Computer Scie IN MULTIMEDIA APPLICATIONS (See pag		quired courses.)			
sic	For Summer N 71.100-021	Ausic Education Program, see page 5. Fundamentals of Musicianship	M-Th	8:00-10:00 am	3	Music majors only	Mark Peterson
	71.101-021	Music Theory 1	M-Th	10:30 am-12:30 p	m 3	Music majors only	Lisa Cleveland
	71.102-021 71.110-021	Music Theory 2 Basic Music Theory	M-Th M/W	10:30 am-12:30 p 7:00-10:00 pm	m 3	P: 71.101, Music majors only Non-Music majors; AE	Department Facult Mark Peterson
	71.202-021	Music Theory 4	M-Th	10:30 am-12:30 p		P: 71.201, Music majors only P: 71.203, Music majors only	Department Facult Lisa Cleveland
	71.204-021 78.301-021	Aural Skills 4 Music, Technology, and Society	M-Th M-Th	8:00-9:45 am 10:30 am-12:30 p	1 (2) m 3	Non-Music majors; AE	Alan Williams
	78.301-021 41.370-021	Music, Technology, and Society Real Estate Law	M-Th	10:30 am-12:30 p 7:00-10:00 pm	m 3	Non-Music majors; AE	Alan Williams J. Alan Roberts
also	78.301-021	Music, Technology, and Society Real Estate Law Family Law	M-Th	10:30 am-12:30 p	m 3	Non-Music majors; AE	Alan Williams
e also pal Studies I Criminal	78.301-021 41.370-021 41.376-021 41.387-021	Music, Technology, and Society Real Estate Law	M-Th M/W T/Th T/Th	10:30 am-12:30 p 7:00-10:00 pm 7:00-10:00 pm 7:00-10:00 pm	3 3 3 3	to been find the sent por findings and a community of the property of the property of the community of the c	J. Alan Roberts Russell Karl
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e also lal Studies I Criminal tice)	78.301-021 41.370-021 41.376-021 41.387-021 CERTIFICATE 45.201-022 45.203-021	Music, Technology, and Society Real Estate Law Family Law Legal Research Methods	M-Th M/W T/Th T/Th T/Th or required M/W T/Th	10:30 am-12:30 p 7:00-10:00 pm 7:00-10:00 pm 7:00-10:00 pm courses.) Call 978-9 7:00-10:00 pm 7:00-10:00 pm	m 3 3 3 34-2765	to been find the sent por findings and a community of the property of the property of the community of the c	J. Alan Roberts Russell Karl Nancy Dick
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Summer Session I

Except as noted: Day classes begin on May 29.

M/W Evening Classes begin on May 30 and include 3 FRIDAYS: June 1, June 15, and June 29.

T/Th Evening Classes begin on May 29 and include 2 FRIDAYS: June 8 and June 23.

Reminder: it is important to check course numbers and prerequisites to ensure enrollment in the correct class

	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
Business Administration	Courses also a	pen to students who are matriculated in the are available to non-UML students who are derEd course listing on page 7.)	Universi currently	ty of Massachusetts l enrolled in other AAC	Lowell MB SB-accred	A Program and who have completed Fou ited master's programs and have the requ	indation Core courses uired prerequisites.
	66.725-011	Negotiations Page 7.7	T/Th	6:00-9:30 pm	3	P: Permission of MBA Program Director; MBA Foundation Core	Timm Kainen
Criminal Justice	(See also page Criminal Profil	e 8 for courses offered off-site.) ing	M/W	6:30-10:00 pm	3	ACTION STREET,	Thomas Diskin
Electrical and Computer Engineering	16.528-011 16.529-011 16.574-021* 16.577-011 *Note: Ten-we Tuesday, July	Alternate Energy Sources Electric Vehicle Technology Advanced Logic Design (10 weeks) Verification of Very Large Digital Designs eek Electrical and Computer Engineering co	M/W T/Th T/Th M/W ourses be	6:00-9:30 pm 6:00-9:30 pm 6:00-8:00 pm 6:00-9:30 pm egin Tuesday, May 29	3 3 3 3 with final	P: Permission of instructor P: Permission of instructor P: Logic Design P: HDL or permission of instructor exams on the last course meeting on M	Ziyad Salameh Ziyad Salameh Anh Tran James Moran Ionday, July 30 or
Health Professions	(See also Cybe 34.615-021	erEd course listing on page 7.) Clinical Education Experience I (May 29 - July 6)	M-F	8:00 am-5:00 pm	2 (4)	P: First-year Physical Therapy graduate students only	Deidra Murphy
Mathematics	92.500-011 92.509-011	Discrete Structures Introduction to Probability and Mathematics Statistics	T/Th M/W	3:15-6:00 pm 6:00-9:30 pm	3	P: 3 semesters of calculus; some familiarity with matrices	Alan Doerr Lee Jones
	92.515-011	Introduction to Chaos and Dynamical Systems	M/F	3:15-6:45 pm	3	P: A thorough knowledge of the calculus sequence and familiarity and comfort with proofs in mathematics	Vidhu Prasad
	92.590-011	Statistical Quality Control	T/Th	6:00-9:30 pm	3	P: 92.386 or permission of instructor	Shelley Rasmussen
Music	For Summer N	Music Education Programs, see page 5.					
Psychology	47.531-011 47.533-011	Substance Abuse Mental Health Problems in the Community	T/Th M/W	6:00-9:30 pm 6:30-10:00 pm	3		Richard Siegel Peter Hantzis
	47.551-011	Psychosocial Aspects of Aging	T/Th	6:00-9:30 pm	3		Kevin Callahan
Regional Economic and Social	57.512-011 57.518-011	Community Conflict Resolution Comparative Environmental Studies	T/Th M-Th	6:30-10:00 pm 3:00-5:20 pm	3	rane de l'avente en la colonia de la colonia	David Turcotte Thomas Estabrook

Summer Session II

Except as noted: Day classes begin on July 9.

M/W Evening Classes begin on July 9 and include 2 FRIDAYS: July 13 and July 27.

T/Th Evening Classes begin on July 10 and include 2 FRIDAYS: July 20 and August 3.

Reminder: it is important to check course numbers and prerequisites to ensure enrollment in the correct class.

	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
Business Administration	Courses also a	pen to students who are matriculated in the are available to non-UML students who are de erEd course listing on page 7.)					
	Portfolio Inves 62.688-021	stment and Security Analysis Special Topics in Marketing: Sustainable/ Green Marketing	M/W M/W	6:00-9:00 pm 6:00-9:00 pm	3 3		Frank Andrews Eunsang Yoon
Criminal Justice	(See also page 44.543-021 Constitutional	e 8 for courses offered off-site.) Forensic Psychology Law	M/W T/Th	6:00-9:00 pm 6:00-9:00 pm	3 3	eproximitation described (CDC) to se	Alexandria Weida David Orrick
Electrical and Computer Engineering	(See listings u	nder Summer I for 10-week offerings.)		eofale so			
Health Professions	(See also Cyb 34.634-021	erEd course listing on page 7.) Clinical Education Experience II (July 2 - August 24)	M-F	8:00 am-5:00 pm	2 (4)	P: Clinical Education Experience I, second-year Physical Therapy graduate students only	Deidra Murphy
Mathematics	92.516-021 92.527-021 92.550-021	Pattern Recognition and Neural Networks Geometry Mathematical Modeling	T/F M/W T/Th	4:45-7:45 pm 2:00-5:00 pm 6:00-9:00 pm	3 3 3	P: Calculus-based probability P: T.I. 92 required P: 92.231	Lee Jones Marvin Stick James Graham-Eagle
Music	For Summer N	Music Education Programs, see page 5.		to leading as a	Lange	Burta his sumbly the school as the	
Psychology	47.536-021	Forensic Psychology	M/W	6:00-9:00 pm	3	equally server as a server as	Alexandria Weida

University of Massachusetts Lowell

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Graduate School Home Page:

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Teaching and Research Assistantship Info

Program Catalog & Academic Calendar

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http://www.uml.edu/grad

http://gsapply.uml.edu

Course Descriptions

> 1-800-656-GRAD > www.uml.edu/grad > graduate_school@uml.edu

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GRADUATE STUDIES AT UMASS LOWELL

Applied Mechanics - Physics Applied Statistics **Atmospheric Sciences** Biochemistry **Biological Sciences** Bioprocessing Biotechnology Business Administration (M.B.A.) Cellular Biology **Chemical Engineering**

Civil Engineering

Adult Psychiatric Mental Health Nursing

Cleaner Production Clinical Chemistry Coatings and Adhesives - Plastics Community and Social Psychology Computational Math Computer Engineering Computer Science Criminal Justice Design/Manufacturing Dynamics/Systems/Controls Economic & Social Development of Regions Education: Cert. of Adv. Graduate Study (C.A.G.S.)

Education: Curriculum and Instruction Education: English as a Second Language Education: Language Arts and Literacy Education: Leadership in Schooling Education: Mathematics for Teachers Education: Planning & Policy Education: Reading & Language **Education: Teacher Certification Educational Administration Electrical Engineering** Energy Engineering Energy/Environmental **Environmental Studies** Epidemiology

Ergonomics Family Health Nursing Fiber/Composites - Plastics GeoEnvironmental Geotechnical Gerontological Nursing Health Promotion Health Services Administration Industrial Hygiene Momt. Science in Manufacturing Mathematics & Science Education Mechanical Engineering Medicinal Chemistry

Molecular Biology Music Conducting Music Education Music Performance **Nuclear Energy** Nursing Occupational Ergonomics Occupational Health **Optics** Opto-Electronics Physical Therapy Physical Therapy Adv. Practice **Physics**

Plastics Engineering Pollution Prevention Polymer Science Radiological Sciences Radiological Sciences & Protection Scientific Computing Solar Energy
Solid Mechanics/Materials/Structures Statistics & Operations Research Structural Engineering - Civil Thermal/Fluid/Transport Processes Transportation - Civil Work Environment Policy



Office Hours

Advising Center, Southwick Hall 225 Monday-Friday: 8:30 am-5:00 pm

Enrollment Services/Continuing Studies and Corporate Education, Southwick Hall 223 Monday-Thursday: 8:30 am-8:30 pm Friday: 8:30 am-5:00 pm

Holiday Hours and Special Hours

May 28: Memorial Day (University closed)
June 10: Commencement
July 4: University closed

The week of July 1 through July 7 (closed July 4), the Office of Enrollment Services/Continuing Studies will be open from 8:30 am-5:00 pm.

The week of August 20 through August 25, the Office of Enrollment Services/Continuing Studies will be open from 8:30 am-7:00 pm.

Phone Directory

I Holic Directory	
Bookstore - North Campus	(978) 934-2623
Bookstore — South Campus	
Continuing Studies	
Main Number	(978) 934-2480
Continuing Studies	
Fax Number	(978) 934-3087
Continuing Studies	
Advising Center	(978) 934-2474
Continuing Studies	
Enrollment Services	(978) 934-2480
Library — North Campus	
(Alumni/Lydon)	(978) 934-3205
Library — South Campus	
(O'Leary)	(978) 934-4550
Phone-In Registration —	
Operator Assisted	(978) 934-2700
Phone-In Registration —	
Automated	(978) 934-2050
UMass Lowell Main Number	(978) 934-4000
UMass Lowell Directions	(978) 934-5800
Weather Cancellations	(978) 934-2480
	(978) 934-2121
Graduate School	(978) 934-2380
	(978) 656-GRAD

See our Website at http://continuinged.uml.edu

You can also visit the Graduate School Website at www.uml.edu/grad

Registration Information

See Academic Calendars on page 18 for appropriate registration deadlines.

Mail-In Registration

- Fill out the registration form and return it postmarked no later than the scheduled deadline.
- 2. Mail to: University of Massachusetts Lowell Enrollment Services/Continuing Studies and Corporate Education
 One University Avenue
 Lowell, MA 01854-2881
- 3. Payment must be made with the registration form, either by check, money order, VISA, MasterCard, or Discover. Make checks payable to: University of Massachusetts Lowell.
- Students will receive class confirmation, room assignment, receipt and ID by mail before the first class meeting.

Fax-In Registration

Fill out the registration form and fax it to (978) 934-3087 no later than the scheduled deadline. Be sure to include your VISA, MasterCard, or Discover number.

REGISTER EARLY

Get a head start and register early! Although we cannot guarantee an opening in any class, your chances for being enrolled in the course of your choice are better when you register early. Please note that seats in laboratory courses are limited.

Phone-In Registration with an Operator

- Payment can be made by VISA, MasterCard, or Discover only.
- Call (978) 934-2700. Please refer to the Office of Enrollment Services/Continuing Studies hours for phone-in registration times. The registration staff may take only registration information. If you have any questions concerning courses and academic programs, please call (978) 934-2480 or (978) 934-2474.

Automated Phone-In Registration Using the Voice Response System (Credit Courses Only)

Students who are presently enrolled at the University of Massachusetts Lowell, Continuing Studies and Corporate Education and who have a Continuing Studies PIN (students registered during Fall and Spring), may now register for summer classes through the touchtone telephone registration system. This system is available during the following times: Monday-Thursday: 6:00 am-11:00 pm; Friday: 6:00 am-9:00 pm.

To Access the System, Dial (978) 934-2050 or (978) 934-2049

The Voice Response System will answer the call and ask if you want to access Day School (Option 1) or Evening Division (Option 3). Choose Option 3. You will now be asked for your ID # and if valid, your Continuing Studies PIN.

Hold flags will be checked and if none are found, you will be led through the Registration/Add/Drop process by a series of menus and options.

When you finish selecting your courses, you will be asked to pay by credit card and told the amount owed. Registration will be completed upon payment.

If you hang up anytime during the call or do not complete the payment process, all of the ADD transactions will be undone.

If you experience any problems with this system, please report them to Enrollment Services at (978) 934-2588.

Walk-In Registration at the Office of Enrollment Services/Continuing Studies, Southwick Hall, Room 223, North Campus

Please refer to the Office of Enrollment Services/
Continuing Studies hours for walk-in registration.
Payment must be made at the time of registration.
Payment after 4:00 pm must be made by check,
money order, VISA, MasterCard, or Discover.
Students will receive class confirmation, room
assignment, receipt, and ID at the time they register.

Late Registration — See page 18 for late registration dates

Note: There is an additional \$50.00 fee for late registration. No exceptions.

Final Drop/Add Period

See the appropriate academic calendar. Drop/adds can be processed in the Office of Enrollment Services/Continuing Studies, Southwick Hall, North Campus.

Last Week to Withdraw with "W" Notation

See the appropriate academic calendar for the last day to withdraw. Students withdrawing from any class must officially notify the Office of Enrollment Services in writing, in person, by fax, or by mail postmarked no later than the scheduled deadlines. (See page 18.) Verbal messages to faculty or staff do not constitute official notification.

Identification Card

Students registering in person will receive an ID card during the office walk-in registration and general registration. Students who register by phone or mail will receive their ID by return mail with their letter of confirmation.

Institutional Disclosure

Institutional Disclosure of Information according to the Higher Education Act is available at www.uml.edu/student-services.

Students with Disabilities

A student with a disability who needs special arrangements should contact Kerry Donohoe at (978) 934-2465 early in the registration process. Special advising, registration assistance, preferential scheduling, and alternative examination procedures are available. Students must qualify for handicapped parking stickers. Special parking is also available on a temporary basis.

The University's Annual Campus Crime and Safety Report

The University's Annual Campus Crime and Safety Report, which includes campus crime statistics and information about campus alcohol, drug and sexual assault policies as well as other important matters is available on the Web at http://www.uml.edu/studentservices/dean/CampusCrimeReport.html. Paper copies of this report are available upon request at University Police (Ball Hall — 978-934-2384) and at the Office of Student Services (Cumnock Hall — 978-934-2100).

Correct Social Security Number

The University of Massachusetts Lowell must obtain your correct social security number (SSN) to file certain information returns with the IRS as well as to furnish a statement to you. The returns the University must file contain information about qualified tuition and related expenses (Form 1098-T, Tuition Payments Statement). The information about your tuition will help to determine whether you, or the person who can claim you as a dependent, may take the Hope credit or lifetime learning credit to reduce the Federal income tax.

Bookstore Locations

North Campus — Falmouth First Floor, (978) 934-2623 South Campus — McGauvran Student Union Building, (978) 934-6908

Please call the bookstore to confirm the location of your textbook.



Tuition is priced on the basis of credit hour unless the contact hour is different. Tuition is then based on the listed contact hour.

Tuition and Fee Information

fullion and ree information	
Undergraduate Tuition	\$185.00
(per credit/contact hour)	
Undergraduate Audit	\$185.00
(per credit/contact hour)	
Undergraduate High Tech and Specialized	\$190.00
Courses (includes undergraduate	
courses offered on the UML campus	
that are listed under Computer Science	
and Information Tech.)	
Undergraduate High Tech and Specialized	\$190.00
Courses Audit	
Undergraduate Off-Campus	\$220.00
(per credit/contact hour)	

(per credit/contact hour)
Undergraduate CyberEd/Distance
Learning Courses
(per credit/contact hour)
Undergraduate CyberEd/Distance
Learning Courses Audit
(per credit/contact hour)
CSCE Graduate On-Campus Courses
(per credit/contact hour)
Graduate CyberEd/Distance
Learning Courses
(per credit/contact hour)
Samuel CyberEd/Distance
(per credit/contact hour)
Samuel CyberEd/Distance
(per credit/contact hour)

Graduate Off-Campus Courses \$240.00*
(per credit/contact hour)
Graduate Courses at Westborough
Late Registration Fee (non-refundable) \$50.00

*Some tuitions may vary depending on customization and customer and program requirements.

Students who have checks returned due to insufficient funds will be charged an additional \$30.00 for the processing of the registration.

Overdue Accounts

Students will be permitted to attend class and to utilize facilities only after they have cleared all their financial obligations to the University. In addition, student transcripts and diplomas will not be released until all debts have been paid. Should it be necessary to utilize the services of a collection agency or attorney for an overdue student account, the student will be liable for any and all legal fees, commissions, and associated service charges.

Directed Studies

Directed Studies and Practicums are considered Special Programs, and as such, tuition remission and certificates of eligibility cannot be accepted.

NOTE:

Veterans' Information

Veterans must be matriculated in an undergraduate degree program and have all appropriate paperwork

on file in the Office of Enrollment Services/ Continuing Studies, including a DD214, an Admission Application form, and official transcripts from other colleges in order to receive VA benefits. Waivers for legal Massachusetts residents (residency must be documented) cover 100% cost of tuition, are not retroactive and do not cover registration and other fees. Veterans requesting benefits must check the appropriate line on the registration form. Veterans should use the mail-in or walk-in options when registering and should provide all necessary documentation (no phone-in). For additional information, please see our Website at http://continuinged.uml.edu.

Veterans' waivers are available for on-campus courses provided there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. However, due to the high cost of Distance Learning courses, there are no waivers available for these courses. Merit and Need-Based Assistance Grants for CyberEd courses are available to veterans who are presently enrolled in degree and certificate programs and who are making satisfactory academic progress towards their degrees or certificates.

Third-Party Payment

All students using company direct payment, military plans, state tuition waivers, or veterans' waivers must include the appropriate forms or authorizing letters with their registration, or have them on file. No tuition refund is awarded for late submission of eligibility form. Students receiving company reimbursement must prepay their own tuition. For additional information, call (978) 934-2479.

NOTE:

Senior Citizens

Senior citizens (60 years or older) who are Massachusetts residents may attend classes in Continuing Studies credit programs tuition-free provided that there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. Please note that waivers are not retroactive and do not cover fees. Proof of Massachusetts residency and birth date must be provided annually at the time of registration. However, due to the high cost of Distance Learning courses, there are no waivers available for these courses. Merit and Assistance Grants are available for veterans and seniors taking CyberEd courses who are presently enrolled in Degree and Certificate Programs and are making satisfactory academic progress towards their degrees or certificates.

Tuition Refund Policy for Credit Courses

Any eligibility for tuition refund is based on the academic calendar, not class attendance, and is pro-rated as follows, excluding fees:

Summer I (Courses spanning Summer I and II)

Withdrawal on or before May 18	100%
Withdrawal from May 19 to before	90%
the first class meeting	
Before the second class meeting	80%
Before the third class meeting	40%
After third class meeting	No refund
Cummar II	

Sulliller II	
Withdrawal on or before June 27	100%
Withdrawal from June 28 to before	90%
the first class meeting	
Before the second class meeting	80%
Before the third class meeting	40%
After third class meeting	No refund

We are no longer accepting applications for the following degree and certificate programs:

Associate's Degrees:

Accounting Applied Chemistry Applied Chemistry: Biotechnology Option Applied Chemistry: Hazardous Waste Option Applied Mathematics Applied Mathematics: Computer Mathematics Option

Banking Criminal Justice

Bachelor's Degrees

Applied Chemistry
Applied Chemistry: Coatings Option

Certificate Programs:

Banking **Engineering Skills** International Trade Internet System Administration Novell Option of Data Telecommunications Purchasing Security Management Windows Programming

A student enrolled in any of these programs should schedule an appointment with the appropriate program advisor to help plan a schedule for degree or certificate completion.

Tuition Refund Policy for CyberEd Courses

Withdrawal on or before May 18	100%
Withdrawal from May 21 to May 25	90%
Withdrawal May 26 –June 1	80%
Withdrawal through June 8	40%
Withdrawal after June 8	No refund

Fees will be refunded if Continuing Studies is responsible for cancellations.

Students withdrawing from any class must officially notify the Office of Enrollment Services/Continuing Studies and Corporate Education on forms provided by the Office. Verbal messages to faculty or staff do not constitute official notification.

Tuition Refund Policy for Students Receiving Title IV Financial Aid and Enrolled in a Degree or Specifically Designated Certificate Program

Refunds for Title IV financial aid recipients will be processed according to federal guidelines and institutional policy. Please call the Financial Aid Office at (978) 934-4220 if you have any questions.

Tuition Refund Policy for Noncredit Courses

Participants who withdraw before the first class meeting will receive the total amount paid. Participants who withdraw following the first class meeting will receive a 40% refund. No refunds are given for withdrawal after the second class meeting.

Student Health Insurance

Every student who is enrolled in at least 9 semester hours or more in a degree program is required by Massachusetts state legislation to participate in a qualifying student health insurance program. The cost of this insurance is \$366.00 from January 1 until August 15, 2001. Payment of the appropriate fee will be required at registration. To waive participation in this program, students must fill out a form at registration showing equivalent coverage. The name of your insurance company and your policy number are required information on the waiver form.

Academic Calendar & Registration Information

Summer Session I

Day classes begin on Tuesday, May 29.

M/W Evening classes begin on Wednesday, May 30 and include 3 FRIDAYS: June 1, June 15, and June 29 at the regularly scheduled hours.

T/Th Evening classes begin on Tuesday, May 29 and include 2 FRIDAYS: June 8 and June 22 at the regularly scheduled hours.

We encourage you to mail-in, phone-in, or fax your registration.

May 28: Memorial Day observed

Mail-In Registration:	April 9 to May 18
Phone-In Registration:	April 9 to May 18
Fax-In Registration:	April 9 to May 18
Walk-In Registration:	April 9 to May 18

General Registration and Open House: May 17

Late Registration: Begins May 21 There is an additional \$50.00 fee for late registration.

Last Day to Add a Lab

Day Classes: May 31

Last Day for Partial Refund

(Before the 3rd class meeting) Day Classes: May 31 M/W Evening Classes: June 4 T/Th Evening Classes: June 5 CyberEd: Through June 8

Last Day to Drop/Add Course

Day Classes: June 4 (3-credit courses); June 4 (4-credit courses) M/W Evening Classes: June 4 (Before the 3rd class meeting) T/Th Evening Classes: June 5 (Before the 3rd class meeting) CyberEd: Through June 8

Last Day to Withdraw with "W" Notation

Day Classes: June 14 for a 3-credit course June 15 for a 4-credit course M/W Evening Classes: June 15 (Before the 9th class meeting) T/Th Evening Classes: June 21 (Before the 9th class meeting) CyberEd: Through July 27

Final Examinations

Day Classes: June 28 for a 3-credit course June 29 for a 4-credit course M/W Evening Classes: Friday, June 29 T/Th Evening Classes: Thursday, June 28

NOTE: M/W evening courses meet twice a week plus 3 Fridays: June 1, June 15, and June 29. T/Th evening courses meet twice a week plus 2 Fridays: June 8 and June 22.

Summer Session II

Day Classes begin on July 9.

M/W Evening classes begin on July 9 and include 2 FRIDAYS: July 13 and July 27 at the regularly scheduled hours.

T/Th Evening classes begin on July 10 and include 2 FRIDAYS: July 20 and August 3 at the regularly scheduled hours.

We encourage you to mail-in, phone-in, or fax your registration to guarantee the class of your choice and the receipt of your classroom confirmation.

July 4: Independence Day observed

April 10 to June 29 Mail-In Registration: Phone-In Registration: April 10 to June 29 April 10 to June 29 Fax-In Registration: April 10 to June 29 Walk-In Registration:

Late Registration: Begins July 2 There is an additional \$50.00 fee for late registration.

Last Day to Add a Lab

Day Classes: July 11

Last Day for Partial Refund

(Before the 3rd class meeting) Day Classes: July 11 M/W Evening Classes: July 13 T/Th Evening Classes: July 17

Last Day to Drop/Add Course

Day Classes: July 12 (Before the 4th class meeting) M/W Evening Classes: July 13 (Before the 3rd class meeting) T/Th Evening Classes: July 17 (Before the 3rd class meeting) CyberEd: June 8

Last Day to Withdraw with "W" Notation

Day Classes: August 1 for a 3-credit course July 26 for 4-credit courses M/W Evening Classes: August 1 (Before the 10th class meeting) T/Th Evening Classes: August 3 (Before the 10th class meeting) CyberEd: Through July 27

Final Examinations

Day Classes: August 15 for a 3-credit course August 16 for 4-credit course M/W Evening Classes: Wed., August 15 at 7 pm T/Th Evening Classes: Thurs., August 16 at 7 pm

Note: M/W evening courses meet twice a week plus 2 Fridays: July 13 and July 27. T/Th evening courses meet twice a week plus 2 Fridays: July 20 and August 3.

Academic Information

The University of Massachusetts Lowell is accredited by the New England Association of Schools and Colleges, which accredits schools and colleges in the six New England states. Membership in the association indicates that the institution has been carefully evaluated and found to meet standards agreed upon by qualified educators. The programs in Civil Engineering Technology, Electronic Engineering Technology, and Mechanical Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. The Bachelor of Science in Business Administration (BSBA) is accredited by the AACSB — The International Association of Management Education.

Catalog

Students should refer to the Continuing Studies and Corporate Education catalog for rules, regulations, program outlines, and course descriptions. The catalog is available in the Advising Center and the Office of Enrollment Services/Continuing Studies and at http://continuinged.uml.edu.

Admission into a Certificate or Degree Program

Students who have graduated from high school or who have earned a high school equivalency certificate are invited to apply for programs leading to a Certificate or an Associate's or Bachelor's degree. Applications for all programs are accepted on a rolling admissions basis. Contact the Continuing Studies Office at (978) 934-2470 (certificate programs) or (978) 934-2474 (degree programs) for an application and information on the application procedure. There is no fee to apply.

The following degree and certificate programs are available on a part-time evening basis:

College of Engineering Associate's Degrees

Civil Engineering Technology Civil Engineering Technology: Water Treatment

Option Civil Engineering Technology: Wastewater

Treatment Option

Civil Engineering Technology: Surveying Option **Electronic Engineering Technology**

Mechanical Engineering Technology

Bachelor's Degrees

Civil Engineering Technology Civil Engineering Technology: Environmental

Electronic Engineering Technology Mechanical Engineering Technology Mechanical Engineering Technology:

Manufacturing Option

Mechanical Engineering Technology: **Plastics Option**

College of Arts and Sciences Associate's Degree

Information Systems

Bachelor's Degrees

Applied Mathematics

Applied Mathematics: Computer Mathematics Option

Criminal Justice

Priminal Justice: Paralegal Option

Information Systems Liberal Arts

College of Management Associate's Degree

Management

B.S. in Business Administration

Certificate Programs

Land Surveying

Manufacturing Technology

Accounting Client/Server Database and Administration Community Policing Computer-Assisted Manufacturing Computer Engineering Technology **Contemporary Communications** Data/Telecommunications **Electronics Technology Electro-Optics Environmental Technology** Fundamentals of Information Technology Graphic Design and Digital Imaging Hazardous Waste Management Interactive Game Design Intranet Development

Multimedia Applications Nutrition

Paralegal Studies

Plastics Engineering Technology and Plastics

Engineering Technology with Packaging

Option

Quality Assurance

Semiconductor Manufacturing

Spanish

Technical Writing

UNIX

Wastewater Treatment

Water Treatment

Website Design and Development

Certificate Completion

When a student completes the necessary courses for a certificate program, the student should complete and submit a Certificate Award Petition to Continuing Studies.

Course Grades

Grade reports for the Summer session will be mailed to students approximately two weeks after exams end. Students who have received their PIN can also call the Voice Response System at (978) 934-2050 to receive their Summer grades, which will be available as soon as they are posted.



Drop-in Advising Center

Students are welcome to drop by the Advising Center, located in Southwick Hall, Room 225, from 8:30 am to 5:00 pm for general advising, information on associate's and bachelor's degrees and certificate programs, and/or to obtain catalogs and brochures. Call (978) 934-2474 for information.

For questions on graduate programs, call the Graduate School at (978) 934-2380.

Appointments with Program Coordinators and General Advisors

In addition to the general advising conducted at the Advising Center, appointments with Advisors and Program Coordinators are scheduled in Enrollment Services. Evening supervisors are also available in Enrollment Services, Southwick Hall, Room 223 from 5:00-8:00 pm to answer questions and conduct status reviews. Students are encouraged to call the Advising Center at (978) 934-2474.

Evening Supervisors

Professor Alan Doerr

Professor Bernard Shapiro

Faculty Advisors

Professor Paul Damour: Biology, Chemistry,

Environmental Science, Physics Professor Alan Doerr: Applied Mathematics

Professor Stephen Driscoll: Plastics Engineering Technology and Plastics Engineering Technology

with Packaging Option Professor Ann Marie Hurley: Computer Math,

Information Systems

Professor Joseph Lipchitz: Criminal Justice, Liberal Arts, Paralegal Studies

Professor Donald Pottle: Department Head, **Engineering Technology**

Professor Charles Thompson: Accounting and Management

Professor Robert Tuholski: Mechanical Engineering Technology

Professor Fahd Wakim: Electronic Engineering Technology

General Advisors

Ms. Elaine Bourret: Accounting and Management

Ms. Joyce Brill: Information Systems

Ms. Kerry Donohoe: Degree and Certificate Programs

Mr. Daniel Howell: Civil Engineering Technology

Ms. Olyce Moore: Degree and Certificate Programs

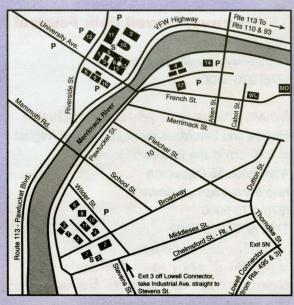
Ms. Adrianna Morris: Information Systems

Ms. Claire Murphy: Bachelor of Liberal Arts, Criminal Justice

Ms. Susan Wartman: Degree and Certificate **Programs**

Ms. Brenda Woonton: Degree and Certificate **Programs**





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BL	Ball Engineering Ctr.	1		Allen Hall
	Costello Gym	2	CO	Coburn
	Cumnock Hall	3		Concordia Hall
	Dormitories	4		Dining Hall
	Eames Hall	5	DU	Dugan Hall
EB	Engineering	6	DR	Durgin Hall
FA	Falmouth	7	MA	Mahoney Hall
KI	Kitson	8	OL	O'Leary Library
	Alumni/Lydon	9		Power Plant
	Library	10	SU	Student Union
EC	Pinanski	11	WE	Weed Hall
OH	Olney	P		Parking
OS	Olsen	S		Security
PA	Pasteur			
	Research	Do	wnte	<u>own</u>
	Foundation		MO	Mogan Center
SO	Southwick Hall		WL	Wannalancit

Directions

Smith Hall

Parking

Security

Fox Student Union

For UMass Lowell online directions, call (978) 934-2480.

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Students are encouraged to park in the numerous parking lots on the North and South Campus. Parking stickers may be obtained from the University Police in Ball Hall 125 North Campus (open 24 hours a day, 7 days a week). This sticker entitles students to park after 5:30 pm in any University parking lot except Cumnock Hall. Students and faculty should not compromise public safety by blocking access of fire lanes, ambulance and other emergency vehicles. Students and faculty should not park in handicap spaces unless they display a handicap sticker. Students and faculty will be towed and/or ticketed for violations. In addition, students and faculty will be towed by the Lowell police if they park in "Residential Parking" areas.

Locating Your Classroom

Upon registration, students are issued a confirmation printout which includes the two-letter building code along with the room number. Refer to the map and building key above to locate where your class will be held. For assistance, call the Advising Center at (978) 934-2474.

University Escort Service

The University now operates a motorized escort service seven nights a week from 6:00 pm to 1:00 am. Call Ext. 2222 for a ride anywhere on campus — from the parking lots, to the library, the residence hall, or the gym. It is a service designed for the entire University community day and evening students, staff, and faculty.

This newspaper is printed at no cost to the Commonwealth of Massachusetts The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action University and does not discriminate in employment or access to programs or services on the basis of race, sex, sexual orientation, color, national origin, religion, handicap, or veteran's status and is in compliance with Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act, 1990. Any inquiries and/or grievances may be referred to the Affirmative Action Officer, the Title IX Coordinator, the Disabilities Coordinator and/or to the Director, Office for Civil Rights, U.S. Department of Health and Human Services, Washington, D.C.

Every effort has been made to ensure the accuracy of the information presented in this bulletin. However, Continuing Studies and Corporate Education reserves the right to implement new rules and regulations and to make changes of any nature in its program, calendar, locations, tuition, and fees. Whenever possible, appropriate notice of such changes will be given before they become effective.

In registering for courses, each student assumes full responsibility for knowledge of and compliance with the definitions, regulations, and procedures for the University as set forth in the appropriate publications and bulletins.

Summer 2001 Activities in Lowell

15th Annual Lowell Folk Festival

July 27th - 29th http://www.lowellfolkfestival.org (978) 970-5000

Lowell Summer Music Festival

Fridays and Saturdays through July and August at 8:00 pm at the Boarding House Park Admission \$5.00/person http://www.nps.gov/lowe (978) 970-5000 TTD: (978) 970-5002

Greater Merrimack Valley Convention & Visitors Bureau

http://www.merrimackvalley.org (978) 453-6150

Lowell National Historical Park

http://www.nps.gov/lowe (978) 970-5000

Lowell Celebrates Kerouac, Inc.

http://ecommunity.uml.edu/lck (877) KEROUAC (info only recording)

The New England Quilt Museum

March 29 - June 3: Quilts for Life: Kathleen Weinheimer and Her Students June 7 - August 19: In Stitches: Quilts with a Sense of Humor

August 23 - October 28: Parallel Threads http://www.nequiltmuseum.org (978) 452-4207

Tsongas Industrial History Center

http://www.uml.edu/tsongas (978) 970-5080

American Textile History Museum

http://www.athm.org/ (978) 441-0400

Whistler House Museum of Art

http://www.whistlerhouse.org (978) 452-7641

Lowell Memorial Auditorium

May 9: Jekyll & Hyde June 6: George & Barbara Bush June 20: Aretha Franklin http://www.lowellauditorium.com (978) 454-2299

Merrimack Repertory Theatre

May 18 - June 17: Art Award-winning comedy by Yazmina Reza http://www.mrtlowell.com (978) 454-3926

Paul Tsongas Arena

http://www.paultsongasarena.com (978) 848-6900

Lowell Spinners

http://www.lowellspinners.com (978) 459-2255

FOR THE SUMMER?

Take one of our summer Online Courses and use it towards completing a degree at your own school or university!

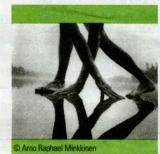
If you study at another college or university, you may be able to take a CyberEd online course this summer and transfer it into your program of study at another institution. We offer a wide selection of credit online courses, many of which can be used to fulfill degree requirements at other institutions of higher education. Take a look at the wide range of online courses we offer... if any of them are comparable to the credit courses required at your institution, you may be able to take them over the summer and transfer them into your program of study.

Please note: Individual schools and colleges have specific policies regarding transfer requirements. Students should check with their originating college or university regarding acceptance of transfer credits from other institutions of higher education.

Advanced Summer Photography **Intensive Abroad!**

Study Under the Guidance of World-Renowned Photographer Arno Rafael Minkkinen

An intensive, black-and-white course for experienced photographers and advanced photography students who wish to explore their personal vision at one of the following workshop locations:



June 11-15: Vevey, Switzerland

July 8-13: Portland, Oregon

July 29-Aug 4: Santa Fe, New Mexico

Aug 5-Aug 11: Tuscany, Italy

Aug 19-Aug 25: Rockport, Maine

After completing a one-week intensive at one of the five remote locations, students will meet with the instructor in a directed study format to complete their photography projects.

Additional travel, tuition, and housing fees may apply. Students interested in enrolling in the course must contact Prof. Minkkinen directly for permission. Email: Arno_Minkkinen@uml.edu.

For more details on the advanced summer photography workshop, visit http://continuinged.uml.edu/photography.htm.

Find out about UMass Lowell's full-time degree programs in Fine Arts! Visit http://www.uml.edu/dept/art.

REGISTRATION FORM FOR CREDIT COURSES

Note: Please remember to fill in your work, home phone numbers and email address. This will allow us to reach you in case of class cancellations.

University of Massachusetts Lowell

Continuing Studies and Corporate Education (978) 934-2480 One University Avenue, Lowell, MA 01854

☐ Summer I (May 29–June 29) ☐ Summer II (July 9–August 17)

PLEASE USE INK AND PRINT

CHECK APPROPRIATE REGISTRATION STATUS:

Social Security No. Tax ID No. Name

Change of name or address since last registration? ☐ yes ☐ no Will you be using veteran benefits? ☐ yes ☐ no

Sex M F Date of Birth _

Date

Email

Work phone -Home phone

Company Name_ Street Address

City & State

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☐ MasterCard **Expiration Date**

Street & No. City & State

☐ VISA

☐ Discover

Account Number

Zip Code

Customer Signature

Total